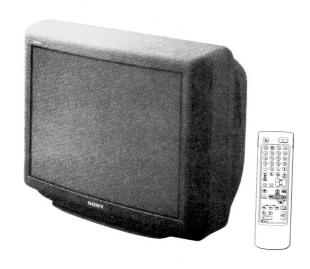
### **SERVICE MANUAL**

### AE-2B CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-S3431A	RM-831	Italian	SCC-G59F-A	KV-S3433E	' RM-831	Spanish	SCC-G56F-A
KV-S3431B	RM-831	French	SCC-G57F-A	KV-S3431K	RM-831	OIRT	SCC-G73E-A
KV-S3431D	RM-831	AEP	SCC-G45E-A	KV-S3432U	RM-831	UK	SCC-G55G-A







ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
Italian	B/G/H, D/K	GERMAN Stereo	ITALIA VHF:A-H2 (C) UHF: 21-69 PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
French	B/G/H, D/K L, I	GERMAN Stereo	L VHF:F02-F10 UHF:F21-F60 CABLE:B-Q B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 I UHF:B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
AEP	B/G/H, D/K	GERMAN Stereo	PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish	B/G/H, D/K	GERMAN/NICAM Stereo	PAL B/G VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
OIRT	B/G/H, D/K	GERMAN Stereo	B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
UK	1	NICAM Stereo	UHF : B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

MODEL	Italian	French	AEP	Spanish	OIRT	UK
Power Consumption	131W	147W	147W	150W	147W	205W

### **SPECIFICATIONS**

Picture Tube

Super Trinitron

Approx. 86 cm (34 inches)

(Approx. 80 cm picture measured

diagonally) 110° -deflection

**Input/Output Terminals** 

[REAR]

Ö-1 21-pin Euro connector (CENELEC standard)

- inputs for audio and video signals

- inputs for RGB

outputs of TV video and audio signals

→2/→3 2 21-pin Euro connector

- inputs for audio and video signals

- inputs for S video

- outputs for audio and video signals (selectable)

→ Audio outputs (variable) - phono jacks

[FRONT]

€3 Video input - phono jack

Audio inputs - phono jacks

€33 S video input 4-pin DIN

Ω Headphone jacks : stereo minijack

Sound output 2 x 12W (RMS)

2 x 30W (Music) Power requirements 220 - 240V

Dimensions Approx. 813x648x596 mm

Weight Approx. 79kg

Supplied accessories RM-831 Remote Commander (2)

IEC designation R6 battery (1)

Other features NICAM, FASTEXT.

[RM-831]

Remote control system infrared control

Power requirements 1.5V dc

1 battery IEC designation

R6 (size AA)

Dimensions Approx. 65x225x21 mm (w/h/d)

Weight Approx. 157g (Not including batteries)

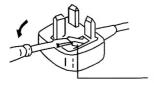
Design and specifications are subject to change without notice.

Model name	KV-S3431A	KV-S3431B	KV-S3431D	KV-S3433E	KV-S3431K	KV-S3432U
Pal Comb	OFF	OFF	OFF	OFF	OFF	OFF
PIP	OFF	OFF	OFF	OFF	OFF	OFF
RGB Priority	ON	ON	OFF	OFF	OFF	OFF
Woofer Box	OFF	OFF	OFF	OFF	OFF	OFF
DSP	ON	ON	ON	ON	ON	ON
Scart 1	ON	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON	ON
Scart 4	OFF	OFF	OFF	OFF	OFF	OFF
Dyn. Convergence	OFF	OFF	OFF	OFF	OFF	OFF
Projector	OFF	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON	ON
Norm B/G	ON	ON	ON	ON	ON	OFF
Norm I	OFF	ON	OFF	OFF	OFF	ON
Norm D/K	ON	ON	ON	ON	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF	OFF
DSP	OFF	OFF	OFF	OFF	OFF	OFF
Language Preset	Italiano	Francais	Deutsch	None	OIRT	English

### WARNING (KV-S3432U only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** capacity. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by **ASTA** to **BS 1362**, ie one that carries the mark.

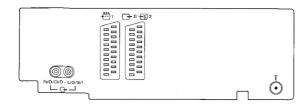
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR YOUR SOCKET OUTLETS IN YOUR HOME. IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET OUTLET. When an alternative type of plug is used it should be fitted with a 5 AMP FUSE, otherwise the circuit should be protected by a 5 AMP FUSE at the distribution board.

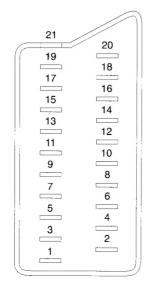


How to replace the fuse. Open the fuse compartment with the screwdriver blade and replace the fuse.

- FUSE

### 21 pin connector ( Ö-1 → 2/→ 4)





	_	_	_		
Pin No.	1	2	4	- · g. · · · ·	Signal level
1	0	0	0	Audio output B	Standard level : 0.5V rms
'				(right)	Output impedance : Less than 1kohm*
2		0	0	Audio input B	Standard level : 0.5V rms
				(right)	Output impedance : More than 10kohm*
3	0	0		Audio output A	Standard level : 0.5V rms
				(left)	Output impedance: Less than 1kohm*
4	0	0	0	Ground (audio)	
5	0	0	0	Ground (blue)	
6	0	0	0	Audio input A	Standard level : 0.5V rms
			Ľ	(left)	Output impedance : More than 10kohm*
7	0	•	•	Blue input	$0.7 \pm 3$ dB, 75 ohms, positive
					High state (9.5 - 12V) : Part mode
8	0	0	0	Function select	Low state (0 - 2V) : TV mode
0	0			(AV control)	Input impedance : More than 10k ohms
					Input capacitance : Less than 2nF
9	0	0	0	, ,	
10	0	0	0		
11	0	•	•		Green signal: 0.7 ± 3dB, 75 ohms, positive
12	0	0	0	Open	
13	0	0	0		
14	0	0	0		
	0	_	-	Red input	$0.7 \pm 3$ dB, 75 ohms, positive
15	-	0	0	(S signal) croma input	0.3 ± 3dB, 75 ohms, positive
-	-		-	Blanking input	High state (1 - 3V) Lowstate (0 - 0.4V)
16	0	•	•	(Ys signal)	Input impedance : 750hms
	$\dashv$			Ground(video	p.saarioo . roomin
17	0	0	0	output)	
10		_		Ground(video	
18	0	0	0	input)	
19	0	0	0	Video output	$1V \pm 3dB$ ,75ohms,positivesync: 0.3V(-3+10dB
	0	-	-	Video input	1V ± 3dB,75ohms,positivesync: 0.3V(-3+10dB
20	-	0	0	Video input	
				Y (S signal)	$1V \pm 3dB$ ,75ohms,positivesync: 0.3V(-3+10dB
21	0	0	0	Common ground	
21				(plug, shield)	

○ Connected

Not Connected (open)

\* at 20Hz - 20kHz

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm , positive Sync. 0.3V -3/+10 dB
4	C (S signal) input	0.3V ± 3dB 75 ohm , positive Sync.



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		CHASSIS	33			All	TENTION !!	

### CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

### WARNING!!

AN ISOLATING TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD, DUE TO A LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENT'S IDENTIFIED BY SHADING AND MARKED IT. ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLIMENT'S PUBLISHED BY SONY.

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE. LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTEMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

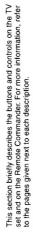
### ATTENTION AUX COMPOSANTS RELATIFS Á LA SÈCURITÈ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE & SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÉ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

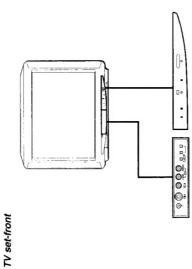
**SECTION 1 GENERAL** 

# The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

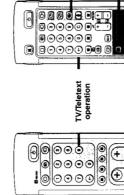
## 1-1. OVERVIEW



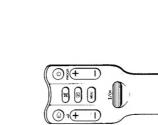




M-860
nder R
omma
Scroll C



PIP operation



Remote commander RM-831	TV/Teletext operation
Remote comn	

Menu operation

Video operation

Simple side

Note
The SAT button
does not operate
with this TV.

Refer to page . .urrunction side
PIP (Picture-in-Picture) operation
Symbol Name Swap button PIP position changing button PIP on / off button PIP source selector 0 Refer to page

5 5

TV power on/TV mode selector button

Input mode selector

Q Ō **(II)** 

Teletext button

Muting on/off button

TV/Teletext operation

Name

Symbol

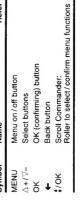
SONY

Standby button

4

1 1 1 1





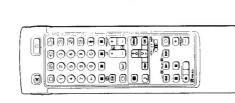


Symbol	Name	Refer to page
Θ	Main power switch	13
Ð	Standby indicator	13
A-:-B	Stereo A/B indicators	15
C:	Headphones jack	22
€3, ⊖3, ⊖3,	Input jacks (S video/video/audio)	22
₽- <b>Z</b>	Function selector (Programme/volume/input)	13
+/-	Adjustment buttons for function selector	13

đ	Output mode selector	23	Symbol	Name
1,2,3,4,5,6, 7,8,9 and 0	Number buttons	13	MENU	Menu on / off button
	Double-digit entering button	13	Δ+/∇- Ω'	Select buttons
O	Direct channel entering button	10	<b>∮</b> ↓	On (confirming) button Back button
<b>4</b>	Volume control button	13	‡/ok	Scroll Commander:
PROGR+/-	Programme selectors	13		Roller to select / confirm me
<b>1</b>	Teletext page access buttons	18		
•	Picture adjustment button	15	Video operation	ration
4	Sound adjustment button	15	Symbol	Name
•	On-screen display button	4	VTR 1/2/3	Video equipment selector
<b>(1)</b>	Teletext hold button	18	MDP	
6	Time display button	14	<b>1</b>	Video equipment operation
	Fastext buttons	α.	PROGR 4/-	Significant

Refer to page

# 1-2. STEP 3 - TUNING IN TO TV STATIONS



Once you have set up the TV, you can choose the language of the menu. Then you should preset the channels (up to 100 channels) by choosing either the automatic or manual method.

ceivable channels at once. Use the manual method if you only have a few channels and want to preset channels one by one. The manual method is also convenient for allocating pro-The automatic method is easier if you want to preset all regramme numbers to various video input sources.

## Before you begin

Check that the Full-Function side of the Remote Commander is

Locate Menu operation buttons on the Remote Commander. They are shaded in the illustration at the left.

### Easy Menu operation using the Scroll Commander

In addition to your double-sided Remote Commander your TV set is supplied with an extra Remote commander. This Scroll Commander works with a roller for convenient, last-access operation of the Menu functions. Move the roller upwards to move the cursor upwards, move the roller downwards to move the cursor odwnwards, press the roller to confirm a selection. The other buttons on this commander have the same function as the respective buttons on the double-sided Remote Commander.



Depress  $\Phi$  on the TV.

The TV will switch on, If the standby indicator on the TV is lit, press G or a number button on the Remote Commander. Press the MENU button.

The LANGUAGE menu appears. (See Fig. 1.)

Choose a language

Select the language you want with  $\triangle$  + or  $\triangledown$  – and press OK

MENU

ğ 1

If you have made a mistake Press ← to go back to the previous

sources.

## Preset channels automatically @ With this method, you can preset all re-ceivable channels at

- Select "Preset" with  $\triangle$  + or  $\nabla$  and press OK. The PRESET menu appears. (See Fig. 3.)
- Select "Auto Programme" with  $\Delta$  + or  $\nabla$  and press OK. The AUTO PROGRAMME menu appears. (See Fig. 4.)

To stop automatic channel presetting Press ← on the Remote Commander.

Select (SQ and press OK

► Auto Programme
Manual Programme Presel
Programme Sorting
Parental Lock

- Press OK. Select if necessary the TV broadcast system (B/G for Western European or D/K for Eastern European countries) with  $\Delta+$  or  $\nabla-$  and press OK. The first element of the "PROG«number will be highlighted.

After presetting the channels automatically, you can check which channels are stored on which programme positions. For details, see "Jaing the Programme Table« on page 16.

T)

1)

(1)

9 9

(i) v(+

- Select the second element of the double-digit number with  $\Delta$  + or  $\nabla$  or the number buttons (e.g. For »04«, select »4« here) (See Fig. 5.) and press OK.
- All available channels are now stored on successive programme

PROG CH 01 C25

AUTO PROGRAMME SYS B/G Select To and press OK

Fig. 4.

- Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with  $\lambda$  + or  $\gamma$  or the number buttons (e.g. For »04«, select  $\lambda$ 0.4 here) and press QK. The second element of »PROG« will be highlighted.
- Press OK. The automatic channel presetting starts. When presetting is finished, the preset menu reappears. 9

or You can sort the programme positions to have them appear on screen in the order you like. For details, see "Sorting Programme Positions" on page 10.

SONY

Programme names are automatically taken from Teletext if available. If not, please refer to page 11 «Captioning a Station name» for more information.

PROG

SYS B/G Fig. 5.

## Preset channels manually @

Select "Preset« with  $\triangle$  + or  $\nabla$  – and press OK. The PRESET menu appears. (See Fig. 6.)

Use this method if there are only a few channels in your area to preset or if you want by preset channels cone by one. You may also adlocate programme numbers to various video input

Select "Manual Programme Preset« with  $\Delta$  + or  $\nabla$  – and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 7.)



PROG	SYS	5	SE	ARC	т	LABEL	긃	ΑF
ã	B/G	C5	-	Ho	_	i		9
2	B/G	C34		ĕ	_	1		9
3	B/G	C33	~	10	_	i		(gn
7	9/G	CAS	-	¥	_	í		5
un	9:0	C35	+	jj0		i		9
9	Ö	C44	_	o.	-	i		9
~	B/G	C54	-	F	_	i		(00)
00	9:0	030	-	ě	_	į		0
on	e G	C38	-	e H	_	į		(au)
10	B.G	690	_	W <sub>O</sub>	^	i		00

Fig. 7.

Fig. 2.

Select CG and press OK Timer
Presel
Picture Control
Sound Control
Language

Now, choose one of the following methods "Preset Channels Automatically"

Preset Channels Manually «.

If you choose
"Demo« on the main
menu, you can see a
sequential demonstration on the menu
functions.
Press MEUI to stop

Press the ← button. The main menu appears. (See Fig. 2.) Display the Menu

To go back to the normal TV picture Press MENU.

Note on the DEMO function

<u>a</u>

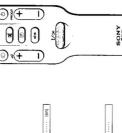
To go back to main

menu Keep pressing ← .

Keep pressing ←
To go back to the
normal TV picture
Press MENU position. To go back to main menu

# 1-3. ADDITIONAL PRESETTING FUNCTIONS





2 B/G [021 (off)

Select if necessary, a video input source (EXT) with  $\triangle$  + or  $\rm V$  – .

Then press OK. The CH position will be hightighted. (See Fig. 8.)

Using  $\Delta$  + or  $\nabla$  – , select the programme position (number button) to which you want to preset a channel, and press OK.

Fig. 8.

3 EXT AV1

Fig. 9.

The first element of the "CH" number will be highlighted. If you have selected EXT in step 4, select the video input source with  $\Delta$  + or  $\nabla$  – . (See Fig. 9.)

Using  $\triangle$  + or  $\nabla$  – , select C (to preset a regular channel), S (to preset a cable channel) or F (to tune in by frequency) and

To tune in a channel by frequency
After selecting F in step 6, enter three digits using the number buttons.

There are two ways to preset channels. If you know the channel number, go to step »7-Manual«,

if you don't know the channel number, go to step "7-Search".



- Before you begin Check that the Full Function side of the Remote Commander is
  - Locate the Menu operation buttons.

# Sorting Programme Positions

With this function, you can sort the programme positions to a preferable order.

- Press MENU to display the main menu. 8
- Select "Preset« with  $\Delta$  + or  $\overline{\nabla}$  and press OK. The PRESET menu appears.

2 B/G C35 (off)

Select the second element of the number with  $\triangle$  + or  $\nabla$  – or the

The selected number appears. (See Fig. 10.)

number buttons. Press OK.

ပု

م

Select the first element of the »CH« number with  $\Delta$  + or  $\nabla$  – or the number buttons and press OK. The second element of the »CH« number will be highlighted.

7 Manual

Fig. 10.

2 B/G C35

Fig. 11.

The »SEARCH« position is highlighted and the selected channel is now stored. (See Fig. 11.)

Press OK until the cursor appears by the next programme

Ģ

If you have made a mistake
Press ← to go back to the previous

Repeat steps 3 to 7 to preset other channels.

- Select »Programme Sorting« with  $\triangle$  + or  $\nabla$  and press OK. The PROGRAMME SORTING menu appears. (See Fig. 14.) က
- Using  $\triangle$  + or abla , select the programme position which you want to move to another and press OK.
  The colour of the selected position changes. (See Fig. 15.)
- Using  $\Delta$  + or  $\nabla$  –, select the programme position to which you want to move the channel of the programme position selected in step 4 and press OK. Now the programme positions have been
  - Repeat steps 4 and 5 to sort other programme positions. sorted. (See Fig. 16.)





►8 C15 BBC1 16

PROG CH (ABEL PROG CH (ABEL PROG CH (ABEL PROG CH CABE))  1 C14	LABEL PROG CH BGC 1 9 C02 BBC 1 9 C02 BBC 1 0 C02 ITV 2 11 C02 ITV 2 12 C03 ITV 2 ITV 2 ITV 2 C03 ITV 2 ITV 2 I	PROG	PAMME	SORTING			
BBC1 9 C02 BBC2 10 C02 ITV 11 C02 ITV 12 C03 ITV 13 C03 ITV 14 III IN III	BBC1 9 C02 BBC2 10 C02 ITV 11 C02 ITV 11 C03 ITV 11 C03	PROG	£	LABEL	PROG		
BBC2 10 C02	BBC2 10 C02 ITV 11 C03 ITV 1	Ā	CIS	BBC 1	on	C02	
V	TTV 11 C02	2	C02	BBC 2	0	200	
5.5.4.8.8	C4   11   12   13   14   15   15   15   15   15   15   15	e	C14	7	:	C02	
2   5   2   6 	11112 524 85 8	4	1	1	12	C03	
4 5 6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ın	1	1	13	1	
C4 15	C4 16	9	;		14	1	
C4 16	C4 16	7	1	1	15	1	
		00	800	Š	16	1	

Fig. 16.

### ROS

### you have made a Press ← to go back to the previous

To go back to the normal TV picture Press MENU. Keep pressing ←.

## press C twice. To go back to main menu

# Tuning in a Channel Temporarily

You can tune in a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

The indication »C« (»S« for cable channels) appears on the Press C on the Remote Commander. For cable channels,

Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4). The channel appears.

However, the channel will not be stored.



		<u> </u>
	Š	SONY
(i) v(+ 1)		



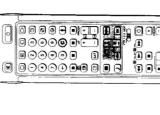




Fig. 12.

-a Press OK repeatedly until the colour of the SEARCH position

changes.

م

Search

7

To go back to main menu Keep pressing ←. To go back to the normal TV picture Press MENU.

2 B/G

2 B/G C50 (▲▼)

Fig. 13.

Start searching for the channel with  $\Delta$  + (up) or  $\nabla$  – (down). The CH postion changes colour, (See Fig. 12.) The CH number starts counting up or downwards. When a channel is found, it stops. (See Fig. 13.)

Press OK if you want to store this channel. If not, press  $\wedge$  + or  $\nabla$  – to continue channel searching.

-d Press OK until the cursor appears by the next programme

Repeat steps 3 to 7 to preset other channels.



### MANUAL PROGRAMME PRESET

# **Skipping Programme Positions**

You can skip unused programme positions when selecting programmes with the PROGR 4/- buttons. However, the skipped programmes may still be called up when you use the number

- Press MENU to display the main menu.
- Select "Preset« with  $\triangle$  + or  $\nabla$  and press OK. The PRESET menu appears. 2
- Select »Manual Programme Preset« with  $\Delta$  + or  $\nabla$  and press OK.

AFT (600) (6

ABEL

- The MANUAL PROGRAMME PRESET menu appears. (See Fig. 17.)
- Using  $\triangle$  + or abla , select the programme position which you want to skip and press OK. The »SYS« position changes colour.
  - Press ∆ + or ∇ until » - « appears in the SYSTEM position (See Fig. 18.) 2
- When you select programmes using the PROGR +/- buttons, the programme position will be skipped. Press OK. (See Fig. 19.)
  - Repeat steps 4 to 6 to skip other programme positions.

▼ 3 ---

Fig. 18.

Fig. 17.

Fig. 19.

# Captioning a Station Name

MANUAL PROGRAMME PRESET

**—** 9 **—** 

Programme names are usually automatically taken from Teletext if available. You can also mamer a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. RTL). Using this function, you can easily identify which channel or video source you are

Press MENU to display the main menu.

watching.

Select "Preset" with  $\triangle$  + or  $\nabla$  – and press OK. The PRESET menu appears.

If you have made a mistake
Press ← to go back to the previous position.

To go back to main

Keep pressing ←

Select "Manual Programme Preset" with  $\Delta$  + or  $\nabla$  – and press

(00)

and press OK

Fig. 20.

Using  $\Delta$  + or  $\nabla$  –, select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 20.)

To go back to the normal TV picture Press MENU.

- Select other characters in the same way, if you want to leave an element blank, select and press OK. (See Fig. 21.) Select a letter or number with  $\Delta$  + or  $\nabla$  – and press OK. The next element will be highlighted.
  - After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin). Now the caption you chose is stored. (See Fig. 22.)
- Repeat steps 5 and 6 to caption names for other channels.

### MANUAL PROGRAMME PRESET

PROGR

# Normally, the AFT (automatic fine-tuning) is already operating. However, if the picture is distorted, you can use the manual fine tuning function to obtain better picture reception.

Manual Fine-Tuning

- Select »Preset« with  $\Delta$  + or  $\nabla$  and press OK. The PRESET menu appears. Press MENU to display the main menu.
- Select »Manual Programme Preset« with  $\Delta$  + or  $\nabla$  and press
  - The MANUAL PROGRAMME PRESET menu appears. (See Fig. 23.)
- Using  $\Delta$  + or  $\nabla$  , select the programme position corresponding to the channel which you want to manually fine-tune, and press OK repeatedly until the AFT position changes colour.
- Fine-tune the channel with  $\triangle$  + or  $\nabla$  so that you get the best TV reception. As you press the cursor buttons, the frequency changes from –15 to +15. (See Fig. 24.)

To reactivate AFT (automatic fine tuning)
Repeat from the beginning and select NON« in step 5.

- After fine tuning, press OK. The cursor appears beside the next programme position (at the left margin). (See Fig. 25.) Now the fine-tuned level is stored.
  - Repeat steps 4 to 6 to fine-tune other channels.



PARENTAL S COCKET

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- Press MENU to display the main menu.
- Select "Preset« with  $\triangle$  + or  $\nabla$  and press OK. The PRESET menu appears.
- Select "Parental Lock« with  $\triangle$  + or  $\nabla$  and press OK. The PARENTAL LOCK menu appears. (See Fig. 26.)
- Using  $\triangle$  + or  $\nabla$  -, select the programme position you want to block and press OK. The CH and LABEL change colour indicating that this programme is now blocked. (See Fig. 27.)
  - Repeat step 4 to block other programme positions.

## Cancelling blocking

On the PARENTAL LOCK menu, select the programme position you want to unblock with  $\Delta$  + or  $\nabla$  –

The CH and LABEL change colour to normal colour indicating that the blocking has been cancelled. Press OK.

The message »LOCKED« appears on the blank TV screen. If you try to select a programme that has been blocked



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CZ4 (OII)	9
-----------	---

(-3) (ou)



### Select Mand press OK Fig. 26.

PROG	3	LABEL	PROG	픙	LABEL
0	AV1	VHS			
	555	BBC2			
2	C45	BBC1			
3	020	3			

SONY. (on)

C25

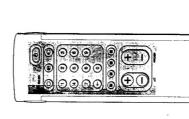
2 B/G

Fig. 22.

Fig. 21.

# Operating Instructions

# 1-4. WATCHING THE TV



This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.

# Switching the TV on and off

### Switching on

Depress @ on the TV.

## Switching off temporarily

Press © on the Remote Commander. The TV enters standby mode and the standby indicator on the front of the TV lights up.

To switch on again Press ○, PROGR +/-, or one of the number buttons on the Remote Commander.

Switching off completely

## Selecting TV Programmes Depress @ on the TV.

Press PROGR +/- or press number buttons.

000000

To select a double-digit number

Press -/--, then the numbers. For example, if you want to choose 23, press -/--, 2 and 3.

# Adjusting the Volume

Press 4/-.

and if the standby indicator on the TV is lit, the TV is in standby mode. Press O or one of the number buttons to switch it on.

If no picture appears when you depress ① on the TV

# Operating the TV Using the Buttons on the TV

With the buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

Press P→ Z → ⊕ button repeatedly until the programme

Then adjust with the -/+ buttons.

Press -/+ buttons to switch on the TV from the standby mode. Press -/+ simultaneously to reset picture and sound controls to the factory preset level (RESET function).

## Watching Teletext or Video Input

For details of the tele-text operation, refer to page 18.

Press one of the coloured buttons for fastext operation. Press oxdots (PAGE +) or oxdots (PAGE -) for the next or preceeding

page. To go back to the normal TV picture, press □.

Press 
to view the teletext.

Press three number buttons to select a page.

Watching teletext

For details of the video input picture, refer to page 23.

Press  $\bigoplus$  repeatedly until the desired video input appears. To go back to the normal TV picture, press  $\bigcirc$ Watching a video input picture

# More Convenient Functions

Use the Full-Function side of the Remote Commander.

# Displaying the on screen indications

## Muting the sound

To resume normal sound, press ox again.

## Displaying the time

Press 

. This function is available only when teletext is broad-

To make the time display disappear, press 🖾 again.

# Displaying of the Programme Table

Press OK. A Programme Table will be displayed on the right side of the TV screen (See. Fig. 28.)

To make the Programme Table disappear Press MENU.

Selecting of TV programmes Press PROGR 4/– or select the desired programme position using  $\Delta$  + or 7 – and press OK.



Fig. 28.

# 1-5. ADJUSTING AND SETTING THE TV USING THE MENU

### (1) i(+ 1 9 9 3 žš.

# Adjusting the Picture

## and Sound

Although the picture and sound are adjusted at the factory, you can set an adjust them to suit your own taste. In addition, you can set the resolution to obtain a higher quality picture or change the aspect ratio of the TV display for wide screen effect. You can also select dust sound (billingual) programmes when available, adjust the sound for listening with the headphones (i.) or individually adjust and store the volume fevel of each channel (Volume offset). Also you have the possibility to adjust the sound to your individual rasie using the Graphic Equalizer and special Sound individual rasie using the Graphic Equalizer and special Sound effects.

SOUND PICTURE

Select DI and press OK

SOUND CONTROL

Fig. 29.

Press 👅 (for picture) or 🎵 (for sound) on the Remote Comman-

ō

Press MENU and select »Picture Control« or »Sound Control«, then press OK.
The PICTURE CONTROL or SOUND CONTROL menu appears. (See Fig. 29. or Fig. 30.)

Using  $\triangle$  + or  $\overline{\triangledown}$  – , select the item you want to adjust and press OK. The selected item changes colour (See Fig. 31.)

Adjust the setting with  $\triangle$  + or  $\nabla$  – and press OK. The cursor appears beside the next item (at the left margin). (See Fig. 32.)
For the effect of each control, see the table below.

Brightness

Colour

Fig. 32.

Repeat steps 2 and 3 to adjust other items.



## Note: The modifications made in "User" will be stored. All other settings are reset to the lactory-set level when you change to another mode.

# Using the Programme Table

On this table, you can see which channel is preset to which programme position. You can also select programmes using this table.

From the main menu, select »Programme Table« with  $\triangle$  + or  $\triangledown$  – and press OK. The PROGRAMME TABLE menu appears. (See Fig. 34.) To scroll to higher programme numbers, press  $\triangle$  + or  $\nabla$  –.

To select a programme using this menu Select the programme number with  $\triangle$  + or  $\nabla$  – and press OK. The selected programme appears.



# Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

Select TI and press OK

Fig. 35.

(ago)

Sleep Timer

From the main menu, select »Timer« with  $\triangle$  + or  $\nabla$  – and press The TIMER menu appears. (See Fig. 35.) The time period option changes colour. Select the time period with  $\triangle$  + or  $\nabla$  –. Press OK.

After selecting the time period, press OK.
The cursor moves back to the left margin and the timer starts One minute before the TV switches into standby mode, a message is displayed on the screen. counting.

A: channel 1 B: channel 2 stereo mono The selected mode of The A-CD-B indicator on the TV lights up

-7 Less 0 More +7

Volume offset

Note on LINE OUT
The audio level and
the dust sound mode
output from the G+
jack on the rear correspond to the Headphone VOLLIME and

**Dual Sound** 

Choice between special sound effects:

(See page 16 for more information)

Effect

SOUND CONTROL Graphic Equalizer Digital Surround

More left -- More right

HUE is only available for NTSC colour system and RESOLU-TION does not work for SECAM colour

system.

off: Normal

(gives width to a monaural source)

Dome, Hall, Arena, Simulated

## Graphic Equalizer

Using this function you can individually adjust the sound by cuting and boosting selected frequencies. You can also select between the following modes: Flat → Pop → Rock → Jazz → Vocal → User

Select »Sound control« in the Main Menu, then select »Graphic equalizer« using  $\Delta$  + or  $\nabla$  – and press OK.

If you want to modify a mode, select the desired bar of a frequency band using  $\Delta + \text{ev} \nabla - \text{and}$  press OK. The selected bar changes colour. Using  $\Delta + \text{ev} \nabla - \text{edjust the level of frequency and press OK. In this way you can adjust all 5 graphic bars.$ 

To switch off the Select "OFF« in step 3.

High: Obtain a higher picture quality

16:9 Wide screen effect

4:3 Normal

off: Normal

Resolution

To go back to the normal TV picture Press MENU.

Format Reset

To go back to the main menu Keep pressing ←.

Resets picture to the factory preset levels

Greenish — Reddish

Softer ---- Sharper

Sharpness

Darker --- Brighter

Brightness

Colour

Hue

Press ← to go back to the previous

you have made a

Contrast

Effect

Effect of each control PICTURE CONTROL Less

- More

Less —

To check the remaining time Press ⊕.

TIMER \*\*\*

The time period (in minutes) changes as follows:  $10 \rightarrow 20 \rightarrow 30 \rightarrow 40 \rightarrow 50 \rightarrow 60 \rightarrow 70 \rightarrow 80 \rightarrow 90$ 

PIP (if PIP is switched on you can select the PIP sound for the headphones) Di channel 2 stereo mono Less --- More A. Glianitel 1 ii Dual Sound Headphones: O Volume

To go back to the normal TV picture Press MENU.



POP NOCAL USER

GRAPHIC EQUALIZER 1

÷ αi

\* 100 - 00 | K - 4K - 0K

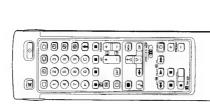
Fig. 33.

Press OK. The colour of »Mode« changes. (See Fig. 33.) Select the desired mode with  $\Delta$  + or  $\nabla$  –, then press OK.

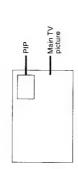
Press MENU to return to the normal TV mode.

When watching video input picture You can select DUAL SOUND to change the sound.

# 1-6. PIP (PICTURE-IN-PICTURE)



With this function you can display a "PIP screen" (small picture) within the main TV picture. In this way you can watch or monitor the video output from any connected equipment (for example from a VTP) while watching TV or vice versa. For information about connection of other equipment, refer to page 22.



## Switching PIP on and off

The PIP screen will be displayed. The PIP picture will come from the source chosen when the TV was last used.

To switch PIP off

### Selecting a PIP source Press C again

The symbol I will be displayed at the bottom, left-hand corner

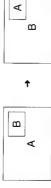
of the screen.
Press © repeatedly until the desired source is indicated (e.g. TV, AV 1, AV 2, YC2, AV 3, YC3, AV 4, YC 4).

f no video source has been connected, the PIP picture will be

## noisy.

Swapping screens Press @.

The main screen will switch the picture with the PIP screen.



If a TV programme is on the PIP screen and a video source on the main picture, and you want to change channels, first press fand then the programme buttons or PROGR +/-.

# Changing the position of the PIP

Press @ repeatedly to change the position of the PIP screen within the main screen. There are four different positions avai-

# Displaying of PIP within Teletext

PROSIC Wittle (eletext is switched on. The PIP screen will be displayed on the right side of the TV screen, the reduced teletext page will be displayed on the left

side. Press C again to make the PIP screen disappear.

17

## 1-7. TELETEXT

### Switching Teletext on and off on the information line of the screen. To switch teletext off Press ○. want to watch.

TV stations broadcast an information service called Teletext via the TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced leletext operation, use the buttons on the Full-Function side of the Remote Commander.

# **Direct Access Functions**

# Select the TV channel which carries the teletext broadcast you

Press (e) to switch on teletext.
A teletext page will be displayed (usually the index page).
If there is no teletext broadcast, »No text available» is displayed

## Selecting a teletext page

With direct page selection
Use the number buttons to input the three digits of the chosen

If you have made a mistake, type in any three digits. Then re-enter the correct page number. page number.

With page-catching Select a teletext page with a page overview (e.g. index page).

Press OK. "Page catching" will be displayed on the information line. The last digit if the first displayed page number flashes. Using A. to V. ", select the desired page and press OK. The requested page will appear in a few seconds. Press ® to resume normal teletext reception. N

Accessing next or preceding page Press ® (PAGE +) or ® (PAGE -). The next or preceding page appears.

# Superimposing the teletext display on the

You can switch tele-text on and off, ope-rate Fastext, and directly select page numbers.

With the simple side of the Remote Com-

Teletext errors may occur if the broad-casting signals are

weak.

Press ® once in teletext mode or twice in TV mode. Press ® again to resume normal teletext reception.

TV programme

**(1)** 

(P) v(F)

D) R 0 2

Preventing a teletext page from being updated

Press  $\Theta$  (HOLD). The HOLD symbol »  $\Theta$  « displayed on the information line. Press (a) to resume normal teletext reception.

### Using Fastext

With Fastext you can access pages with one key stroke. When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commande

Press the corresponding coloured button on the Remate Commander which corresponds to the colour-coded menu. The page wift be displayed after some seconds.



NOON

Fastext operation is only possible, if the TV station broadcasts Fastext signals.



Note RGB input source cannot be displayed in PIP

### 

# Using the Teletext Menu

This TV is provided with a menu-guided teletext system. When teletext is switched in, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

Press MENU. The menu will be superimposed on the teletext

Using  $\triangle$  + o  $\nabla$  –, select the teletext function you want and press OK. (See Fig. 37.) display. (See Fig. 36.)

# USER PAGES/PRESET USER PAGES

See page 21 for information about presetting and operating the user pages.

The index will give you an overview of the contents of the teletext INDEX

Veer rages

Dual Page Mode

Dual Page Mode

Tot Clear

Surifies

Revaal

Time Page

Subpage

Preset User Pages

TELETEXT MENU Fig. 36.

> After having selected the function two succeeding teletext pages will be displayed next to each other on the TV screen. DUAL PAGE MODE and the page numbers.

Select Call and press OK

Fig. 37.

Accessing next or preceding page Press PROGR +/-.

Page Catching Press OK. Page Catching is now active on the left teletext page (See also page 18). While you select a page number on the left page using  $\Delta$  + While you select a page number on the left page using  $\Delta$  + into corresponding teletext page will be displayed on the right side of the TV screen.

Some of the features may not be available depending on the Teletext service.

To cancel the function:

## TOP/BOTTOM/FULL

If you press OK again the right teletext page will appear on the left side of the TV screen.

For convenient reading of a teletext page, you can enlarge the teletext display with the ability to scroll up and down. After having selected the function, an information line TOP/BOTTOM/FULL will be displayed. (See Fig. 38.)

(1) I

90 3 × 1/2

D

∆ Top ⊽ Bottom OK Full

Fig. 38.

Press  $\Delta$  + for ". Top" to enlarge the upper half. Keep pressing  $\nabla$  – for "Bottom" to enlarge the lower one. Press OK for "Full" to esume the normal size. Press 🖲 to resume normal teletext reception.

### TEXT CLEAR

programme while waiting for a requested teletext page to be displayed. (The symbol changes colour) (See Fig. 39.)

Press ( to view the captured page. After having selected the function, you can watch a TV

Fig. 39.

### SUBTITLES

SONY

Your teletext service will inform you if a TV programme is subtitled. After having selected the function the subtitles will be

### Select To and press OK index index index Dual Page Mode Top:Bottom/Full fext Clear Surbitles Faveal Time Page Subpage Preset User Pages TELETEXT MENU

To cancel the request Select "OFF" for the TIME PAGE setting.

To cancel the request Select subpage and press OK.



Fig. 40.

Your teletext service will inform you, if a time coded page is available. You may have a page (e.g. an alarm page) displayed at a

To select the desired page, enter three digits for the page of the page. Using △ + or ▽ - select ON and press OK

To cancel the request Select \*OFF\* for the TIME PAGE setting.

number (e.g. 301) using the number buttons.

To select the desired time, enter four digits for the desired time (e.g. 1800) using the number buttons. Press MENU. The selected time is displayed at the top in the left-handed corner. At the requested time, the page will be displayed.

Press (2) to resume normal teletext mode,

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed.

To select the desired subpage, enter four digits using PROGR 4/- or the number buttons. (e.g. enter 0002 for the second page of a sequence).

Sometimes pages contain concealed information, such as answers to a quic. The reveal option is sty out decises the information. After having selected the function, an information line »REVEAL ONIOFF\* will be displayed. (See Fig. 46.) ation or OFF to Using  $\triangle$  + or  $\nabla$  –, select ON to reveal the info

conceal it again. Press @ to resume normal teletext reception.

Revise . or . off

Fig. 40.

### TIME PAGE

Your latetext service will inform you, if a time coded page is available. You may have a page (e.g. an alarm page) displayed at a certain time.

Press OK. An information window will be displayed at the bottom of the page. Using  $\Delta$  + or  $\nabla$  – select ON and press OK.

To select the desired page, enter three digits for the page number (e.g. 301) using the number buttons.

To select the desired time, enter four digits for the desired time (e.g., 1800) using the number buttons. Press MENU.
The selected time is displayed at the top in the left-handed comer. At the requested time, the page will be displayed.

Press (2) to resume normal teletext mode.

### SUBPAGE

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed. To select the desired subpage, enter four digits using PROGR #/- or the number buttons. (e.g. enter 0002 for the second page

### REVEAL

Sometimes pages contain concealed information, such as answers to a quar. The reveal option flets you disolose the information. After having selected the function, an information line "REVEAL ON/OFF« will be displayed. (See Fig. 40.) Using  $\triangle$  + or  $\nabla$  -, select ON to reveal the information or OFF to

### conceal it again. Press to resume normal teletext reception. TIME PAGE

certain time.

Press OK. An information window will be displayed at the bottom

To cancel the request Select subpage and press OK.

# 1-8. CONNECTING AND OPERATING OPTIONAL EQUIPMENT

# Connecting Optional Equipment

You can connect optional audio-video equipment to this TV such as VTRs, video disc players, and stereo systems.

<del>-</del>

This section explains how to view the video input picture (of the video source connected to your TV), and how to select the output signal using direct access buttons or the menu system.

Press © repeatedly to select the input source. The symbol of the selected input source will appear.

Selecting input

To go back to the normal TV picture

Press ().

Processing input with Processing input with Processing to an input sources to the programme positions so that you can select them with PROCES them with PROCES them with PROCES and the processing the pr

Selecting input and output

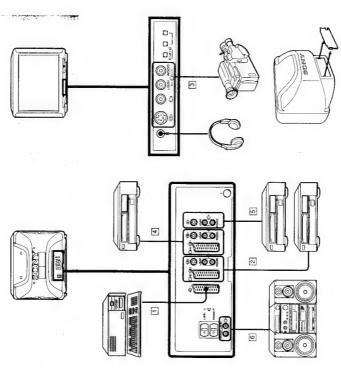
To connect a VTR using the T ferminal Connect the aerial connect the aerial terminal T of the TV. Of the TV. We recommend that you tune in the video signal to programme number "0-". For details see "Preset channels" manually.

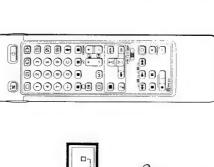
If the picture or the sound is distorted Move the VTR away from the TV.

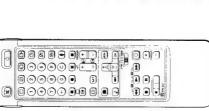
After having con-nected all optional equipment to the TV, attach the supplied cover onto the rear pane ( See illustration at the right).

Wideo signals may be separated miny (urminance or bright mass) and C (chrominance) signals. Separated and C (chrominance) signals prevents them from inderfering with one another, and therefore minproves picture quality (especially urminance). This TV is equipped with 3 S Video input jacks through which these separated signals and scan be input directly. S video input (Y/C input)

When connecting a monaural VTR Connect only the white  $\ominus$  jack to both the TV and VTR.









SONY

Video/audio displayed on TV screen (monitor out) Video/audio from selected source

No outputs

 Normal audio/video and S video signal
 Normal audio/video and S video signal 4 Normal audio/video and S video signal

S No inputs 6 No inputs

1 Normal audio/video and RGB signal

Acceptable input signal

/ideo/audio from TV tuner

Available output signal

S video/audio signal displayed on TV screen (monitor out)

Audio signal (variable)

### S video input through the ♣ 4 / ♣ 4 or ♣ 4 connector (4-pin connector) S video input through the ⊕ 2 / ⊕ 2 or ⊕ 2 connector S video input through the @ 3 connectors on the front Audio/video input through the ⊕ 2/⊕2 connector Audio/video input through the ⊕ 4/ € 4 connector Audio/video input through ⊕ 3 and ⊕ on the front RGB input through the 苟 1 connector (4-pin connector) Input signal Input modes Symbol <del>0</del>2 φ Φ Φ φ (4) φ 9 4 ŧĢ

You can also select the input mode using the P→Δ→⊕ and -/+ buttons on the TV. In this case, first select  $\ensuremath{\mathfrak{C}}$  , and then press -/+ buttons to select the input.

Selecting the output
The ⊕ 2 / ⊕ 2 connector outputs the source input
rom the other connectors.
Press Grepeatedly to select the output.

Output modes

<u>\_</u>

Symbol	⊕ 2 / ⊕ 2 connector outputs
Φ.	The audio/video signal from the -@ 1 connector
2 ⊕	The audio/video signal from the 🕩 2 / ⊕ 2 connector
2 🗗	The audio/S video signal from the 🕒 2 / ⊕ connector
3.0	The audio/video signal from the ⊕ 3 and ⊕ 3 connectors
3. T	The audio/S video signal from the ⊕ 3 and ⊖ 3 connectors
<b>4</b>	The audio/video signal from the ⊕• 4/ € 4 connector
4 4	The audio/S video signal from the ❤ 4 / €3 4 connector
1√	The audio/video signal from the Tr aerial terminal

# 1-9, FOR YOUR INFORMATION

## Checking and selecting the input and output sources using the menu

You can display the menu to see which input sources are selected for the TV screen and PIP screen, and which output source is selected. You can also select them on the menu display.

Select "Video Connection" with  $\Delta$  + or  $\nabla$  – and press OK. The VIDEO CONNECTION menu appears. (See Fig. 45). VIDEO can see which source is selected for the TV and PIP input, and for the output. If you want to select the input and output on this menu, go on to the next step.

• Press 
to enter the PICTURE CONTROL menu and adjust "Brightness«, "Contrast" and "Colour".

Press ⊕ repeatedly to select ⊸ö.

Poor picture quality when watching a RGB video source

1 PLUS VHS 1

Fig. 44

Good picture but no sound

Poor or no picture (screen is dark),

but good sound

• Turn the TV off for 3 or 4 seconds and then turn it on again using O.

Check if the selected video source is on.

Check the aerial connection

select »Reset«, then

• Press 

to enter the PICTURE CONTROL menu, press OK.

If t\( \mathbb{K}\) is displayed on the screen, press t\( \mathbb{K}\).

Press △ +.

 $\bullet$  Plug the TV in.  $\bullet$  Press  $\Theta$  on the TV, (if  $\Phi$  indicator is on, press  $\Theta$  or a programme number on the Remote Commander.)

Here are some simple solutions to problems which may affect the picture and sound.

No picture (screen is dark), no sound

Output

W J

BBC 1 VHS 1 COMPU VHS 2 CAM 2 BETA VHS 3

Select Ma and press OK

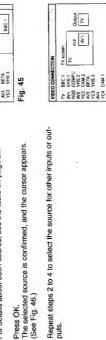
CAM 1 Fig. 43

- Select TV screen (input source for the TV screen), PIP (input source for the PIP screen), or Output (output source) with  $\Delta+$  or  $\nabla-$  and press OK. One of the source items changes colour. (See Fig. 44.)
- VHS 2 CAM 2 BETA VHS 3 AV2 YC2 YC3 Select the desired source with  $\triangle$  + or  $\nabla$  –. (See Fig. 45.) For details about each source, see the table on page 23.

The selected so (See Fig. 46.)

Press OK.

Fig. 45 selected source is confirmed, and the cursor appears.



## BBC 1

If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

Replace battery.

Remote Commander does not function

No colour for colour programmes

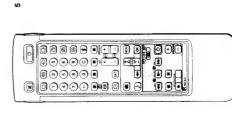
### Select Ma and press OK CAM 1 Fig. 46

# Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control other remote-controlled equipment. The buttons for video operation have been factory-set to control most of Sony video equipment, such as: Beta, 8mm or VHS VTRs or video disc players.

# Tuning the Remote Commander to Sony equipment

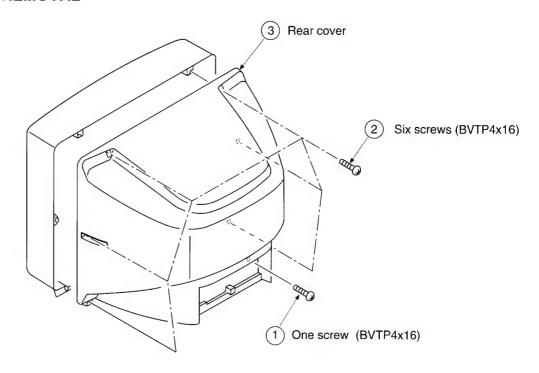
- Set the VTR 1/2/3 MDP selector according to the equipment you want to control:
  - VTR 1: Beta or ED Beta VTR
    - VTR 2: 8mm VTR
    - VTR 3: VHS VTR
- Video disc player MDP
- Use the buttons indicated in the illustration to operate the additional equipment. If your video equipment is Lumished with a COMMAND MODE selector set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander. If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate. 0



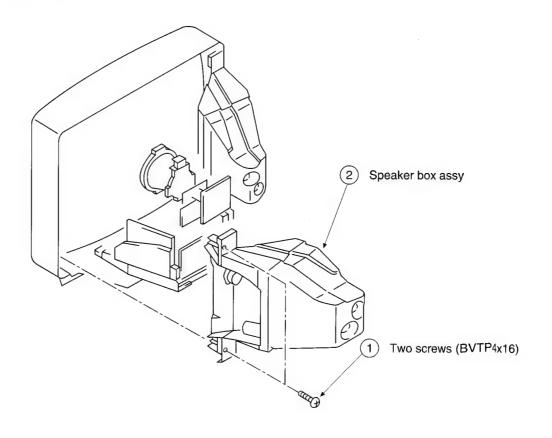
When recording When you use the (record) button, make sure to press this button and the one to the right of it simultaneously.

### SECTION 2 DISASSEMBLY

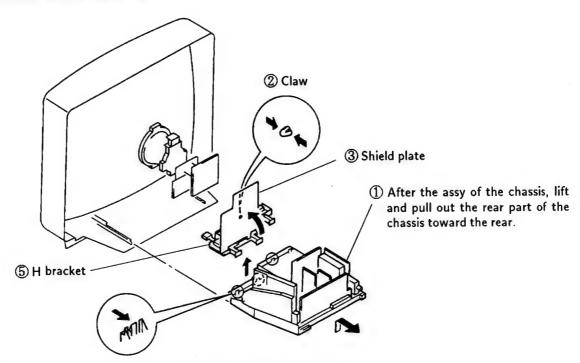
### 2-1. REAR COVER REMOVAL



### 2-2. SPEAKER REMOVAL



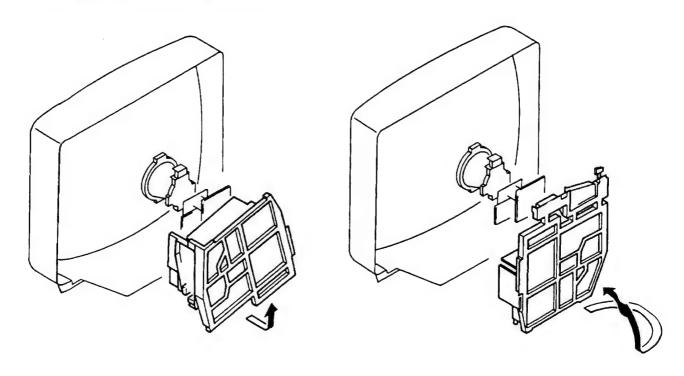
### 2-3. CHASSIS ASSY REMOVAL



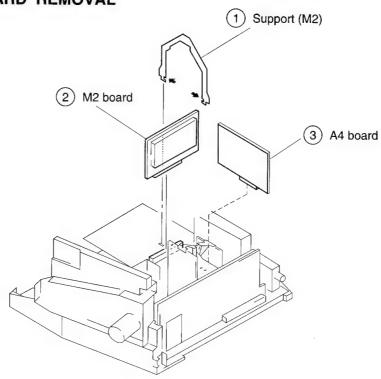
4 Push the three claws of the chassis in the direction of the arrow and remove the H bracket upwards.

### 2-4. SERVICE POSITION

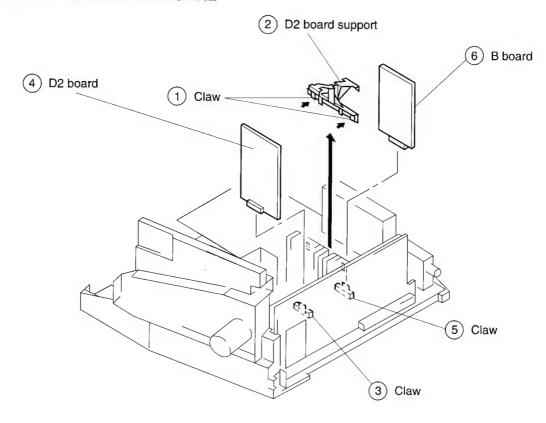
Remove the H bracket from the chassis assy and then perform the following servicing. (Refer to 2-3. CHASSIS ASSY REMOVAL)



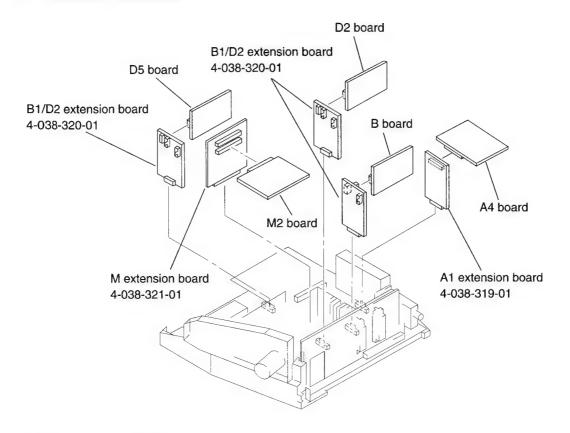
### 2-5. M2 AND A4 BOARD REMOVAL



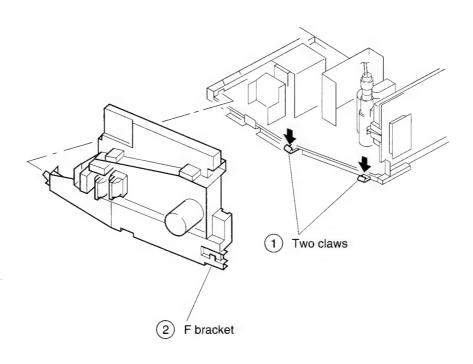
### 2-6. D2 AND B BOARD REMOVAL



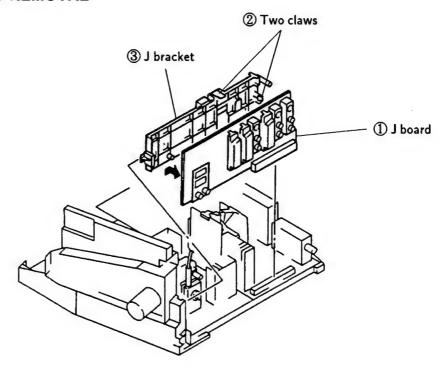
### 2-7. EXTENSION BOARDS



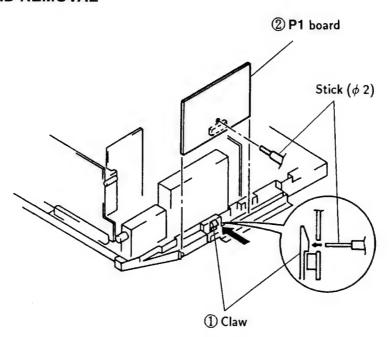
### 2-8. F BRACKET REMOVAL



### 2-9. J BOARD REMOVAL



### 2-10. P1 BOARD REMOVAL



### 2-11-1. WIRE DRESSING

\* Keep distance between ① and ②

CN 403

CN 403

CN 0103

CN 0831

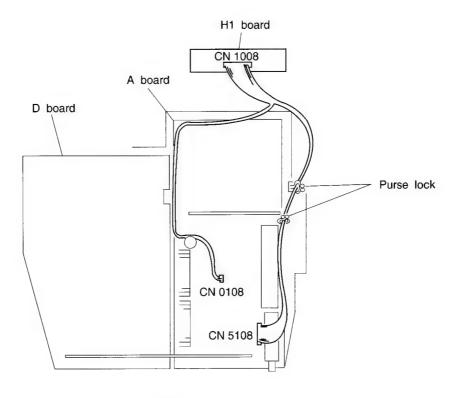
CN 0525

F1 board

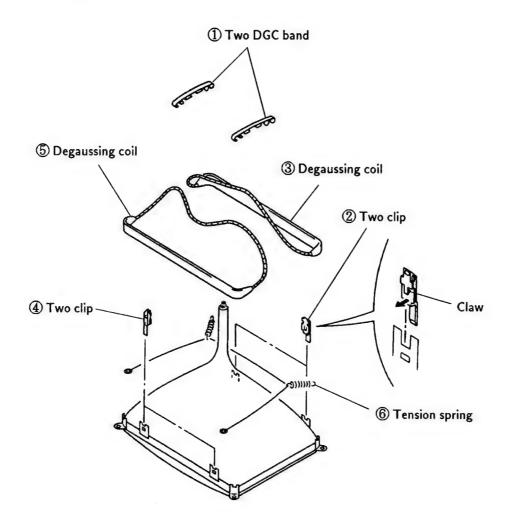
CN 0925

Power cord

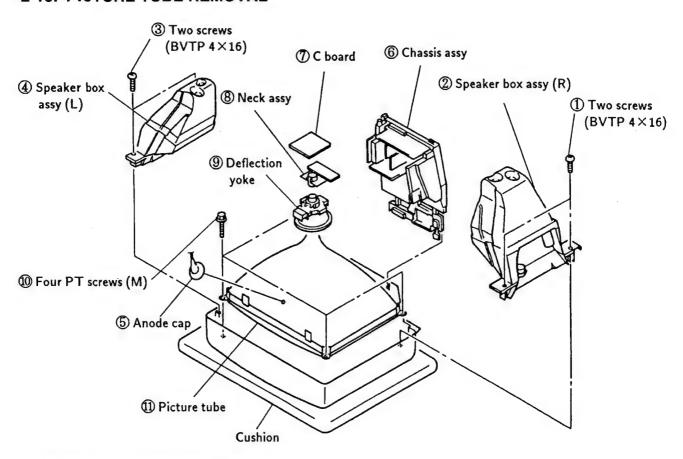
### 2-11-2. WIRE DRESSING



### 2-12. DEGAUSSING COIL REMOVAL



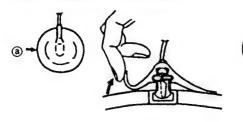
### 2-13. PICTURE TUBE REMOVAL

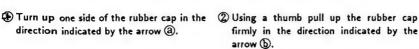


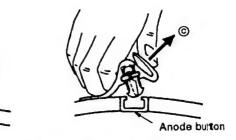
### • REMOVAL OF ANODE - CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT chield or carbon painted on the CRT, after removing the anode.

### REMOVING PROCEDURES



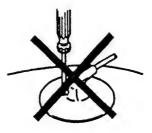


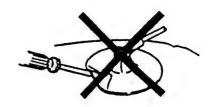


(3) When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow (©).

### · HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
- 3 Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





### SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way:
  - O Contrast ...... 80% (or remote control normal)
  - ⇒ Brightness ...... 50%

### Preparations:

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

### 3-1. BEAM LANDING

- Input the white signal with the pattern generator.
   Contrast Brightness normal
- 2. Position neck assy as shown in Fig.3-2.
- 3. Set the pattern generator raster signal to red.
- 4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side. (See Fig.3-1 3-3)
- 5. Move the deflection yoke forward and adjust so that entire screen is red. (See Fig.3-1)
- 6. Switch the raster signal to blue, then to green and verify the condition.
- 7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- 8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig.3-4)

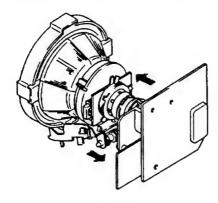
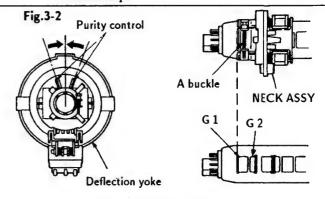


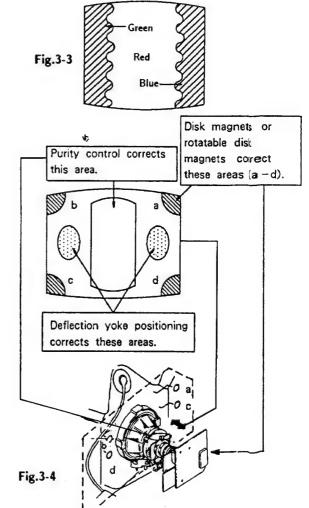
Fig.3-1

- Carry out the following adjustments in this order:
- 1. Beam landing
- 2. Convergence
- 3. Focus
- 4. White balance

Note: Testing equipment required.

- 1. Color bar/pattern generator
- 2. Degausser
- 3. DC power supply
- 4. Digital multimeter
- 5. Oscilloscope



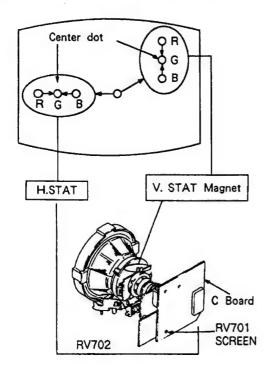


### 3-2. CONVERGENCE

### Preparations:

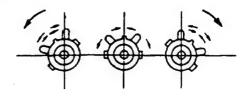
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

### (1) Horizontal and vertical static convergence

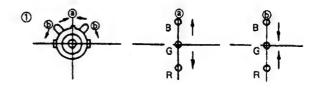


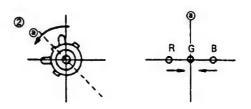
- 1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
- 2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
- 3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below. (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

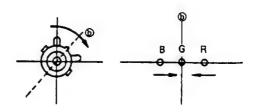
● Tilt the `V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

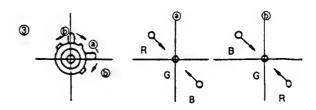


4. If the V.STAT magnet is moved in the direction of the and arrows, the red, green, and blue points move as shown below.









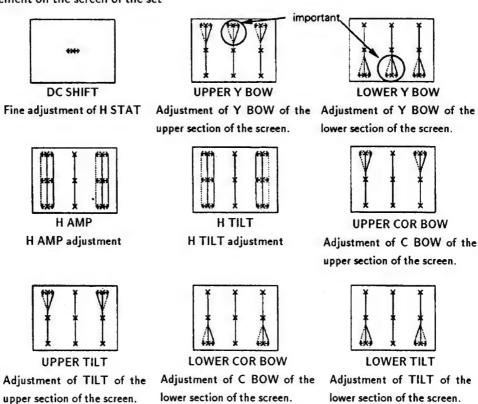
### (2) Dynamic convergence adjustment

- 1. Adjust horizontal convergence located at the center position of the screen with H STAT VR.
- 2. Enter into service mode. (Refer to the section 2 "Electrical Adjustment" on how to enter service mode.)
- 3. Select CXA 1526 on menu.
- 4. Select each item and adjust them so that each item attains optimal convergence.
- 5. Press OK button to write the data.

**CXA 1526** 

Item No.	Adjustment item	Data Amout
01	DC SHIFT	32
02	UPPER Y BOW	4
03	LOWER Y BOW	5
04	Н АМР	48
05	HTILT	29
06	UPPER COR BOW	32
07	UPPER TILT	
08	LOWER COR BOW	32
09	LOWER TILT	32

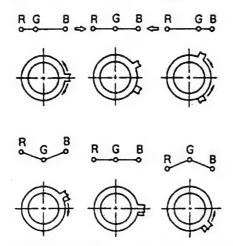
### R.G.B.dots movement on the screen of the set



At this time, H.TILT, H.AMP, UPPER TILT, UPPER COR, BOW, LOWER TILT, and LOWER COR, BOW look like all the same, but the movement of the

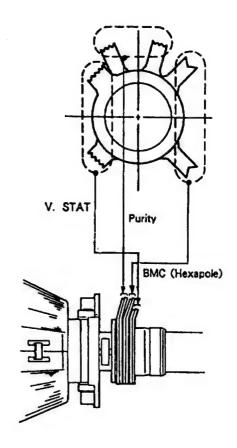
right and left dots are reverse in all the TILF system. (Pay attention to the dotted lines.)

Operation of BMC (Hexapole) Magnet



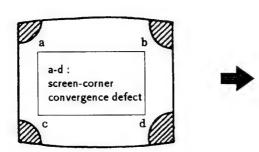
• The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.

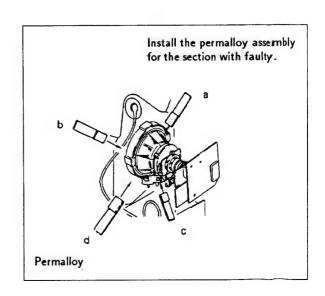
Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).



### (3) Screen corner convergence

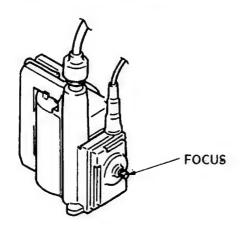
If you cannot adjust corner convergence properly, correct them with permalloy.





### 3-3. FOCUS

Adjust the focus to optimize the screen.



### 3-4. WHITE BALANCE

### Screen G2 Setting

- 1. Input the dot signal from the pattern generator.
- 2. Set the picture brightness control to its lowest level.
- 3. Apply 180V DC to the R,G, and B cathodes with an external power supply.
- While watching the picture, adjust G 2 control RV 701 (Screen) to the point just before the return lines disappear.

### White balance adjustment

- 1. Receive all-white signal.
- 2. Enter into service mode. (Refer to the section 4 "Electrical Adjustment" to how to enter service mode.)
- 3. Select CXA 1587 on menu.

### CXA 1587

Item No.	Adjustment item	Data amout
09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	ADJ.
19	G-MANUAL CUT OFF	ADJ.
20	B-MANUAL CUT OFF	ADJ.

- 4. Set picture to MAX.
- 5. Adjust G-DRIVE B-DRIVE with **1**, **2** buttons so that the white balance becomes optimum.
- 6. Press OK button to write the data for each item.
- 7. Set picture to MIN.
- 8. Adjust G-AUTO CUT OFF, B-AUTO CUT OFF, R
  -MANUAL CUT OFF, G-MANUAL CUT OFF and
  B-MANUAL CUT OFF with ∑, ∑ buttons so
  that the white balance becomes optimum.
- 9. Press OK button to write the data for each item.

### SECTION 4 CIRCUIT ADJUSTMENTS

### 4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander, RM-831.

### **HOW TO ENTER INTO SERVICE MODE**

1. Turn on the main power switch of the set while pressing any two buttons on the front panel.

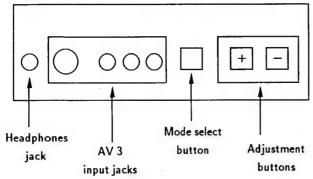
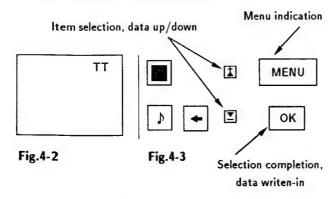


Fig.4-1

2. "TT" will appear on the upper right corner of the screen.

Command operation in service mode



3. Press the MENU button of the commander to get the menu on screen.

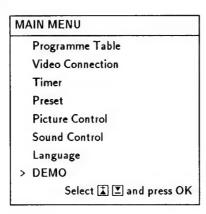


Fig.4-4

- 4. Press the **★** and **▼** buttons of the commander and move > to DEMO.
- 5. Press OK button to proceed to the next menu.
- 6. The menu of fig.4-5 will appear on screen. Select DEVICE corresponding to the adjustment item from the table on next page.



Fig.4-5

7. If adjustment item is CXA1587S, press the ∑ button and move > to CXA1587S.

### CXA1587S

CAAISO		
Item No.	Adjustment item	Data Amout
01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	7
06	RGB PICTURE	13
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.

- 8. Press OK button to get the next selection menu.
- 9. Press ∑ button and move > to the adjustment item and press OK button.
- 10. Press the **∑** and **∑** buttons to change the data in order to comply each standard.
- 11. Press OK button to write data.
- 12. Turn off the power to quit service mode when completing the adjustment.

### CXA1587S

Item No.	Adjustment item	Data Amout
01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	7
06	RGB PICTURE	13
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
09	SUB BRIGHT	ADJ.
10	SUB HUE	7 7
11	VM LEVEL	2
12	NR LEVEL	0
13		
14	ABL MODE	0
	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	ADJ.
19	G-MANUAL CUT OFF	ADJ.
20	B-MANUAL CUT OFF	ADJ.
21	GAMMA LEVEL	0
22	DC TRANSFER RATIO	3
23	DINAMIC PICTURE	0
24	Y FILTER ADJ	ADJ.
25	Y DELAY TIME	15
26	Y DELAY SWITCH 1	0
27	Y DELAY SWITCH 2	1
28	SHARPNESS LIMIT	ON
29	ALL BLK	OFF
30	H SHIFT	32
31	DAC TEST	ON
32	PRE/OVER SHOOT	12
33	SHARPNESS FO	2
34	SUB SHARPNESS	3
35	R MUTE	OFF
36	G MUTE	OFF
37	B MUTE	OFF

### CXA 1526

Item No.	Adjustment item	Data Amout
01	DC SHIFT	32
02	UPPER Y BOW	4
03	LOWER Y BOW	5
04	H.AMP	48
05	H TILT	29
06	UPPER COR BOW	32
07	UPPER TILT	32
08	LOWER COR BOW	32
09	LOWER TILT	32

AGING 1 AGING 2 AKB OFF	OFF OFF ON
AKB OFF	
	ON
MUUDIT DCD	
NHIBIT RGB	OFF
FORCED RGB	OFF
V/2 V	OFF
AXIS	PAL
HUE SW	OFF
/ EXTENTION	OFF
AFC 1	1
AFC 2	. 0
AFC OFF	ON
REF.POSITION	0
	FORCED RGB  //2 V  AXIS HUE SW / EXTENTION  AFC 1  AFC 2  AFC OFF

### CXD 2018

Item No-	Adjustment item	Data Amout
01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
80	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP.V	13
13	HV COMP.H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAN	OFF
19	INTERLACE	ON
20	H SHIFT	32
21	N/S CORRECTION	ADJ.

Typical Value (OSD based) when receiving PAL Philips pattern.

### TDA 6612

Adjustment item	Data Amout
Stereo-Separation	30

Should be adjusted twice 4:3 and 16:9 mode.

### Y FILTER ADJUSTMENT

- 1. Input PAL RED pattern.
- 2. Connect an oscilloscope to CN 0403 (1) pin (R IN) on the C board.
- 3. Enter into service mode and press 3, 8.
- 4. Adjust data by  $\triangle$  or  $\nabla$  to minimize the chroma element of CN 0403 1 pin.

### SUB BRIGHTNESS ADJUSTMENT

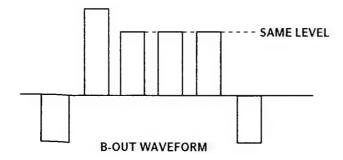
- 1. Input Phillips pattern.
- 2. Enter into service mode and press 23.
- Adjust data so that 0-IRE of the grey scale and CUT
  -OFF 20-IRE glitter slightly.

### SUB CONTRAST ADJUSTMENT

- 1. Input a video that contains small 100% area on the Black Back ground.
- 2. Enter into service mode and press 01 to have PIC max followed by 21.
- 3. Adjust data so that 2.5 Vp-p can be obtained at ① CN 0403 (R IN).

### SUB COLOR ADJUSTMENT

- 1. Input PAL color bar.
- 2. Connect an oscilloscope to CN 0403 ③ pin (B IN) on the C board.
- Enter into service mode and press 22 of CXA 1587 S, 8 SUB COLOR.
- 4. Adjust data so that the right sides of the waveform will be the same.



### STEREO-SEPARATION ADJUSTMENT

- 1. Input 1kHz stereo signal to the L-ch and 400Hz stereo signal to the R-ch.
- 2. Enter into service mode and press 19.
- 3. Adjust data so that sound does not leak to the R-ch and the L-ch.

### DRIVE AND CUT OFF

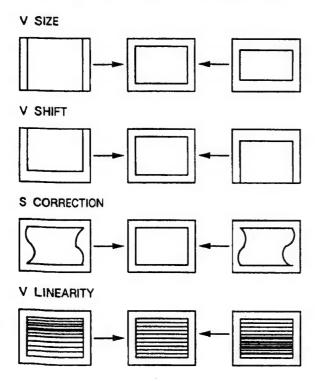
See direct test mode list attached and refer to sub brightness or such for adjustment method.

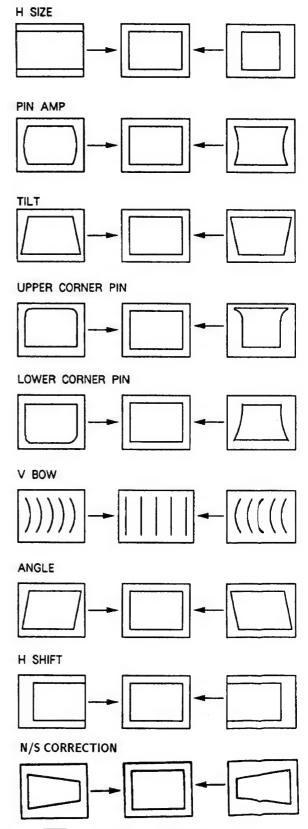
### **DEFLECTION SYSTEM ADJUSTMENT**

- 1. Enter into service mode and select CXD 2018.
- 2. Select and adjust each item in order to get an optimum image.

### CXD 2018

Item No.	Adjustment item	Data Amout
01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
08	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP.V	13
13	HV COMP.H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAM	OFF
19	NON INTERLACE	ON
20	H SHIFT	32
21	N/S CORRECTION	ADJ.





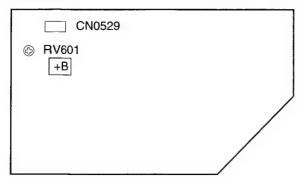
3. PressOK button to write the data.

If menu display may disturb the adjustment press of to clear, to resume it, press of again.

### 4-2. VOLUME ELECTRICAL ADJUSTMENTS

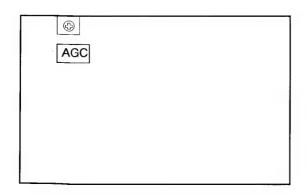
### +B (+135V) ADJUSTMENT (RV601)

### D BOARD



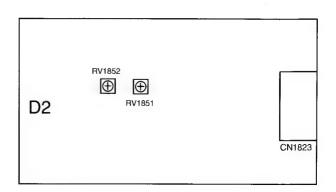
- 1. Switch on the power to the TV set.
- 2. Connect a digital multi-meter to pin (1) of CN0529 on D board.
- 3. Adjust RV601 on D board to  $+135V \pm 0.5V$ .

### AGC ADJUSTMENT (IF BLOCK)

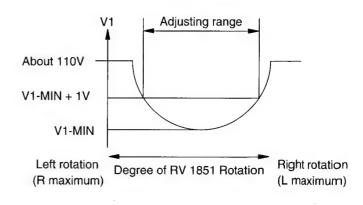


- 1. Receive an off-air signal.
- 2. Adjust the AGC VR so that there is no snow noise or cross-modulation visible on the screen.
- 3. Change the receiving channel and confirm status.

### **DRIVE PULSE PHASE ADJUSTMENT (RV 1851)**



While measuring the voltage V1 at both edges of C1859, rotate RV 1851 so that it becomes minimum.
 The adjusting range is from (the voltage at which V1 becomes minimum) V1 MIN to 3V, which means, adjust to between V1 MIN to V1 MIN + 1V.



### 4-3. TEST MODE 2:

Is available by pressing Test button two times, OSD "TT" appears. The functions described bellow are available by pressing the two numbers. To release the Test Mode 2, press two times 0, or switch TV in Standby Mode.

00	
00	switch Test Mode 2 off
01	picture maximum
02	picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Aging Condition (Volumin., Picture max., Brightness
	max., Aging 2 Mode of CXA 1587S, TDA 2595 is
	locked to CXA 1587S via PIN 34 of $\mu$ -Con.)
08	Shipping Condition (Analog Values are RESET due
	to factory setting, Prog 1 is selected, TT Mode is
	switched off)
09	dummy
10	Tenth entry is deleted
11	Balance
12	Hue
13-14	dummy
15	Read factory setting from NVM
	Reads Volume, Balance, Treble, Bass, Brightness,
	Contrast, Hue, Sharpness, Colour values from ROM
	to the actual used values (Last Power Memory)
16	Save actual used values as RESET values
1	Memorize actual used values Balance, Treble, Bass,
	Hue, Sharpness at RESET position in NVM
17	Preset Lavel for AV Sources
18	dummy
19	Stereo Seperation
20	Tenth entry is deleted
21	Sub Contrast
22	Sub Colour
23	Sub Brightness
24-29	dummy

30	Tenth entry is deleted
31	Green Drive
32	Blue Drive
33	Green Cut Off (Auto Cut Off)
34	Blue Cut Off (Auto Cut Off)
35	Red Cut Off (Manual Cut Off)
	(Auto Cut Off is switched off)
36	Green Cut Off (Manual Cut Off)
	(Auto Cut Off is switched off)
37	Blue Cut Off (Manual Cut Off)
	(Auto Cut Off is switched off)
38	Y-Filter adjustment (Trap is switched off and TDA
	9145 is switched in forced NTSC Mode)
39	dummy
40	Tenth entry is deleted
41	Default setting of CXA 1587S
	(Only in Plog 99 available)
42	Default setting of CXA 2018
	(Only in Plog 99 available)
43	Default setting of CXA 1526
	(Only in Plog 99 available)
44	(all Port High) Not yet
45	(all Port High) Not yet
46-48	dummy
49	Erease the NVM Testbyte (this byte detects already
	stored NMV's) After selecting this function, switch
	TV Off and On $ ightarrow$ the NVM will be preset by $\mu$ -
	Controller. (Not the channel data)

Note: For No. 35, 36, 37 and 38 special pressing
(AKB, forced Color Mode, Trap) isselected.
After selecting a new Test Mode Number,
the AKB is switched ON, the Trapis
switched On and TDA 9145 is switched to
Auto Search Mode.

In Test Mode 2 the Menu display is switchable by Speaker-Off button.

### 4-4. ERROR MESSAGE

Self diagnos system can operates as follows.

• When MP can't get the acknowledge back from the device, LED starts flashing according to the table as attached.

In case of more errors in parallel, the blinking error shows max. Priority according to the error number (e.g. error 2 and error 5 appears together, then LEDs shows error 2).

### **TABLE OF ERRORS**

ERROR COUNT	IC TYPE	FUNCTION
1	I C BUS	SDA low
2	X 24 C 16	EEPROM
3	SDA 3202	Tuner PII
4	TDA 9145	Colour decoder
- 5	CXA 1587S	RGB/Jungle
6	TDA 6612	Sound processor
7	CXD 2018	V deflection
8	CXA 1545	AV switch
11	SDA 5248	Text
13		V protection
		· · · · · · · · · · · · · · · · · · ·

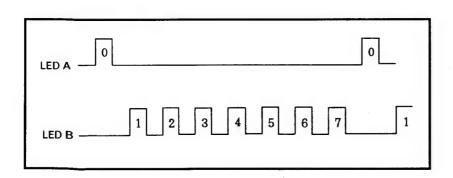
Stand by LED blinking

No IK return

### 4-5. ERROR II C BUS DIAGNOSIS SYSTEM IN AE2 CHASSIS

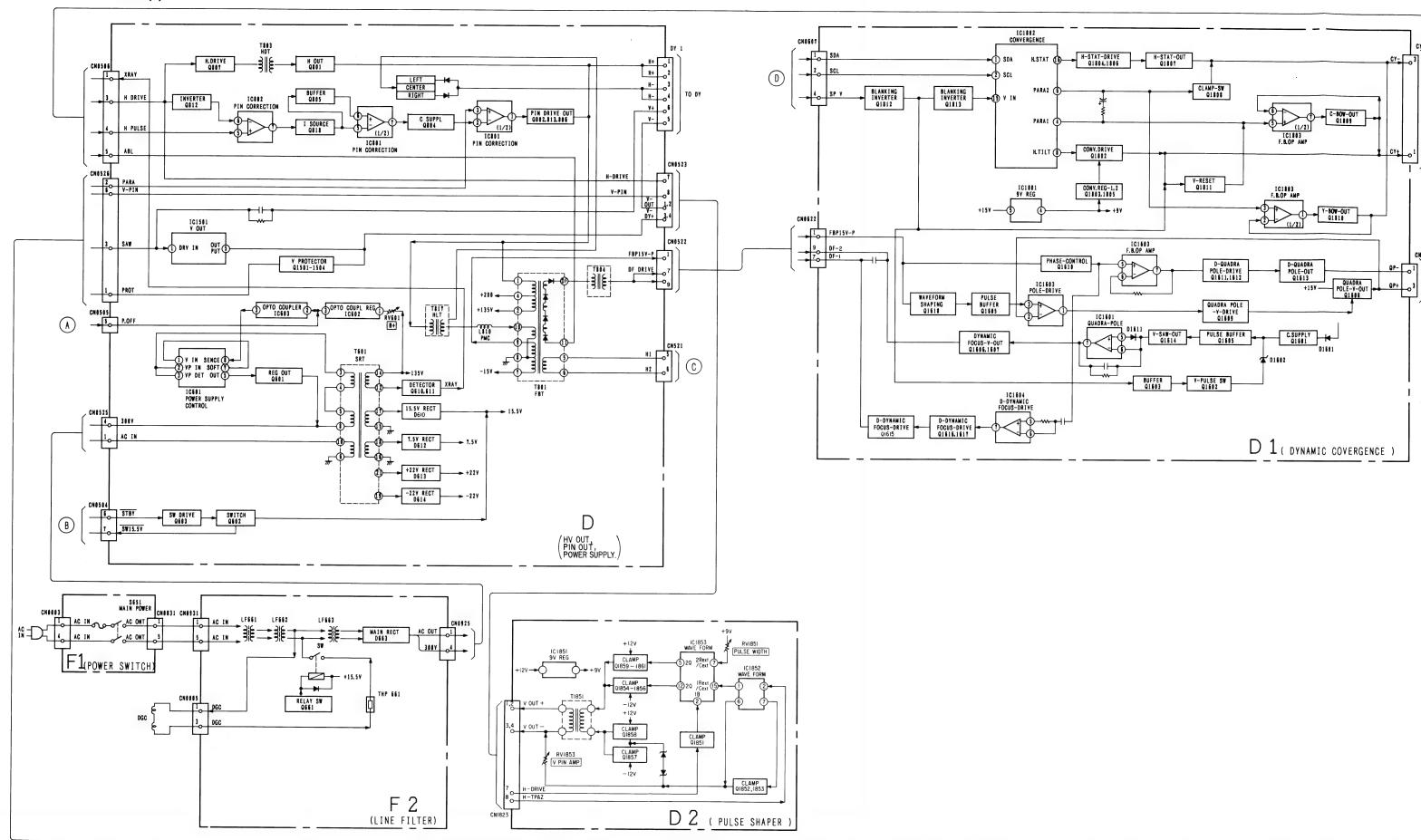
For all ICs in AE 2 chassis which are necessary to get picture and sound there is a built in error I<sup>2</sup>C Bus diagnosis system.

In case of no acknowledge bit, LED A and LED B starts blinking as shown.

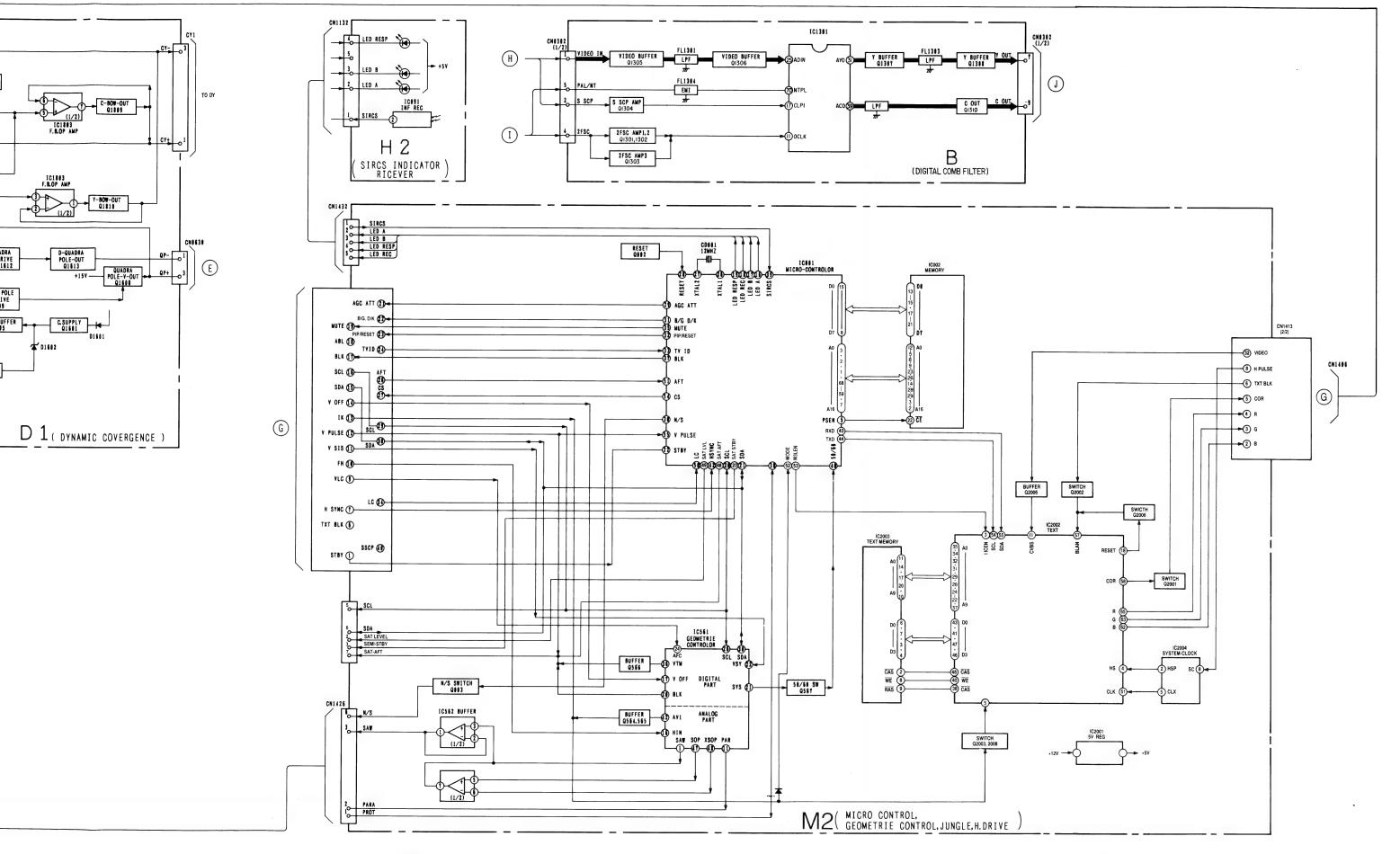


МЕМО		
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_		 
		 <u> </u>
		 _

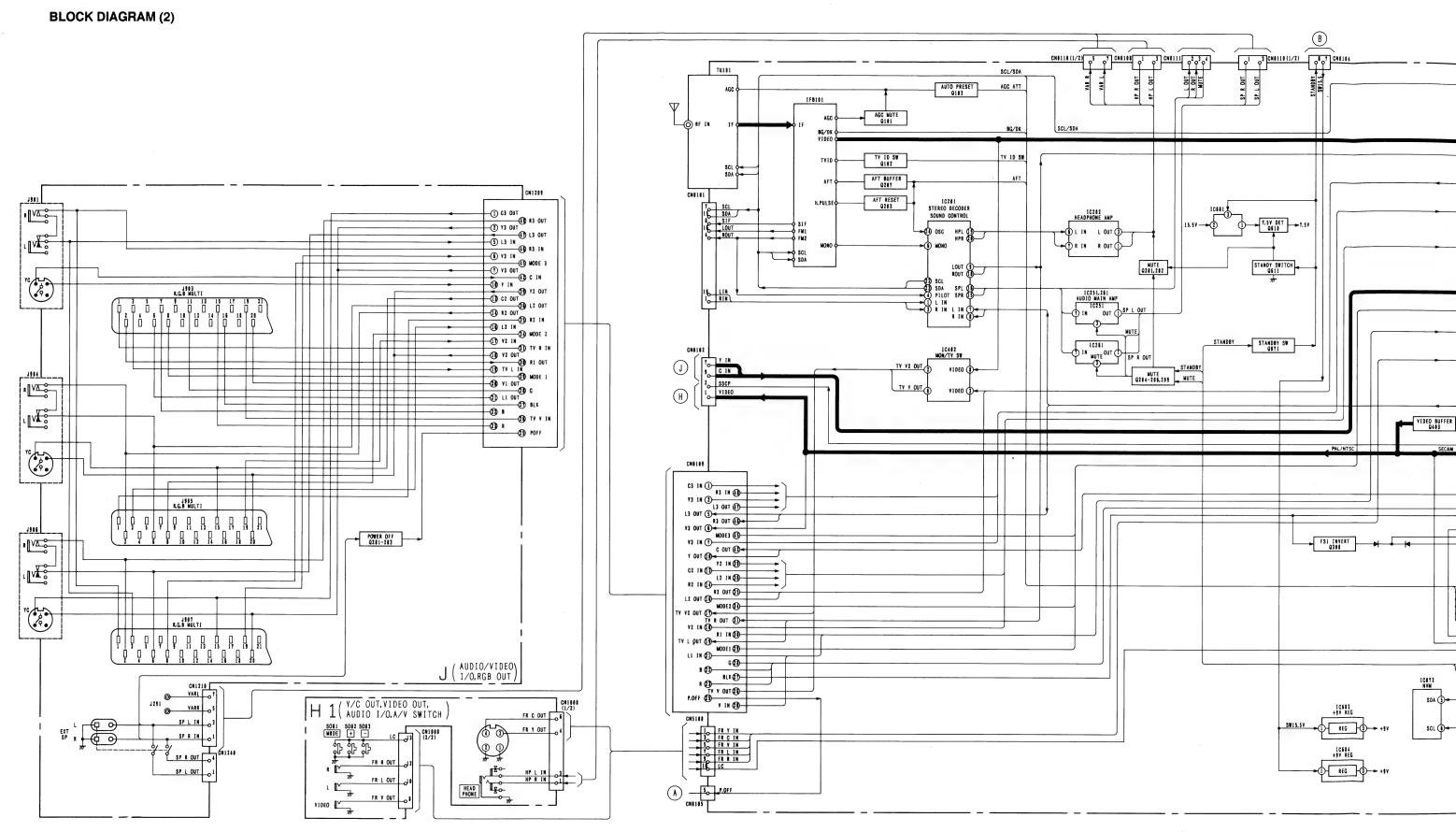
## 5-1. BLOCK DIAGRAM (1)

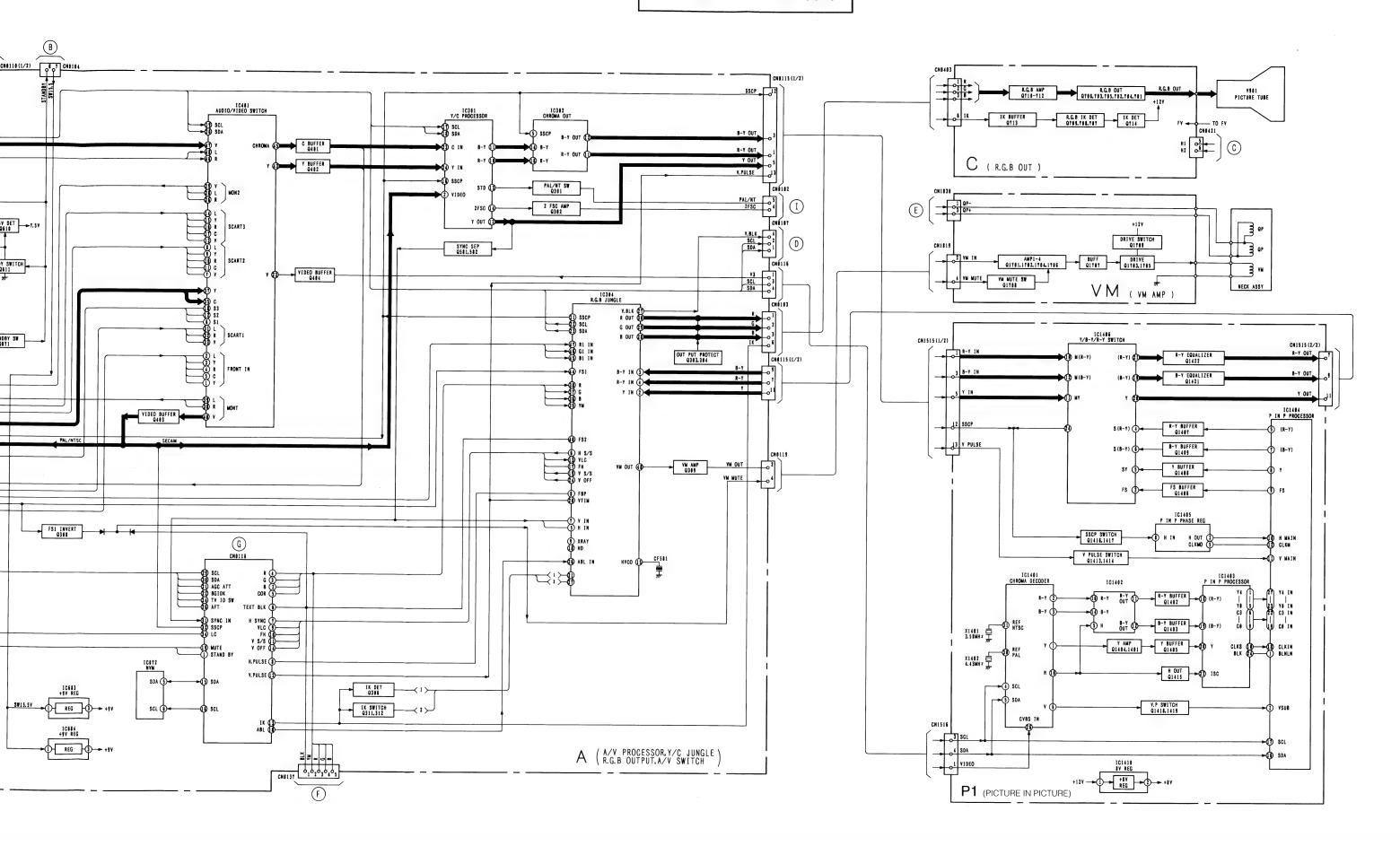


KV-S343

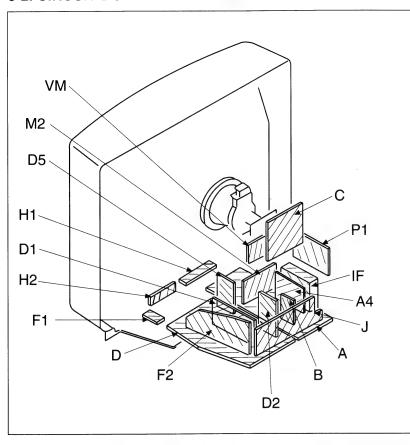


### **BLOCK DIAGRAM (2)**





### 5-2. CIRCUIT BOARDS LOCATION



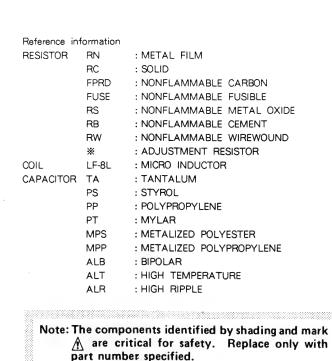
### 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

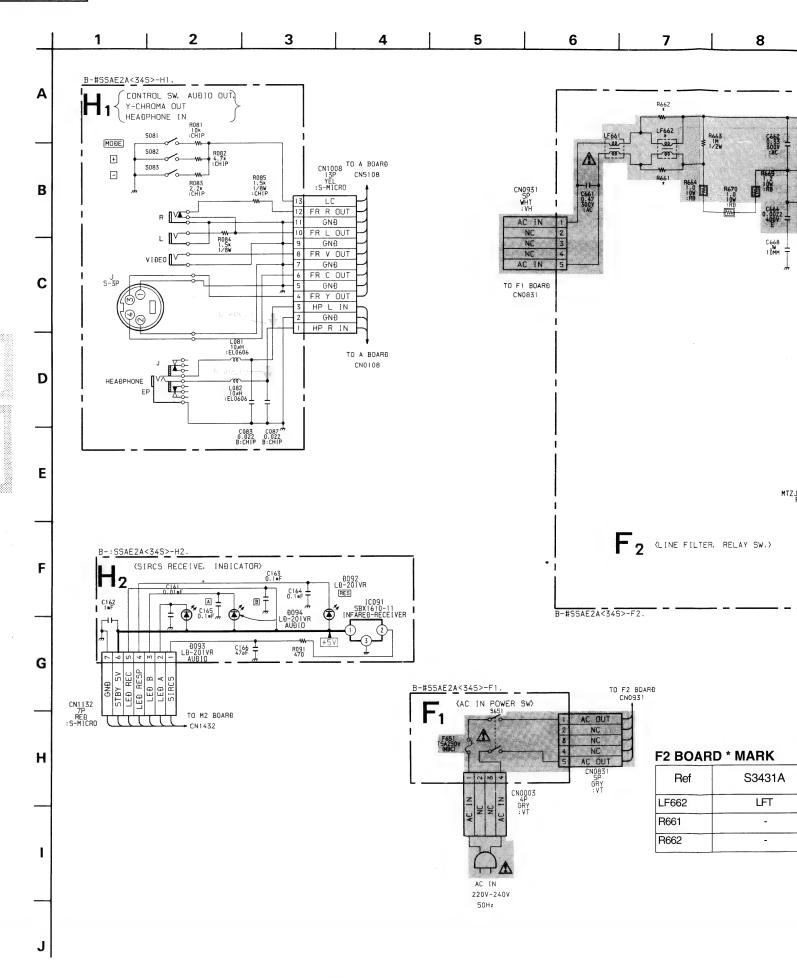
- All capacitors are in  $\mu$  F unless otherwise noted. pF:  $\mu$   $\mu$  F 50WV or less are not indicated except for electrolytic.
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

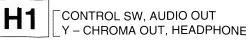
Pitch: 5mm Rating electrical power: 1/4W

- Chip resistor is in 1/10W.
- All resistors are in ohms.  $k\; \Omega = 1000\; \Omega,\; M\; \Omega = 1000K\; \Omega$
- monflammable resistor.
- · tusible resistor.
- △ : internal component.
- panel designation or adjustment for repair.
- All variable and adjustable resistors have charactristic curve B, unless otherwise noted.
- · All voltages are in V.
- Readings are taken with a  $10M\,\Omega$  digital multimeter.
- · Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- B + bus.
- = : B bus.
- signal path.(RF)
- \_\_\_ : earth ground
- · : earth chassis

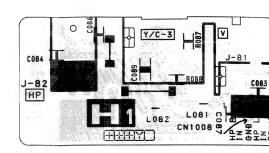


Note: Les composants identifiés par une trame et par une marque A sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.





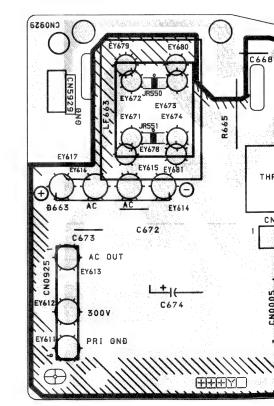


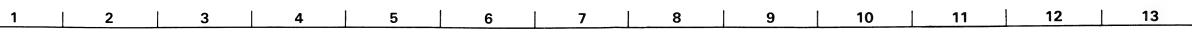


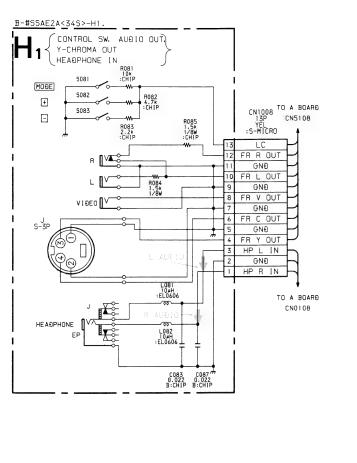
## - H2 BOARD -



### - F2 BOARD -

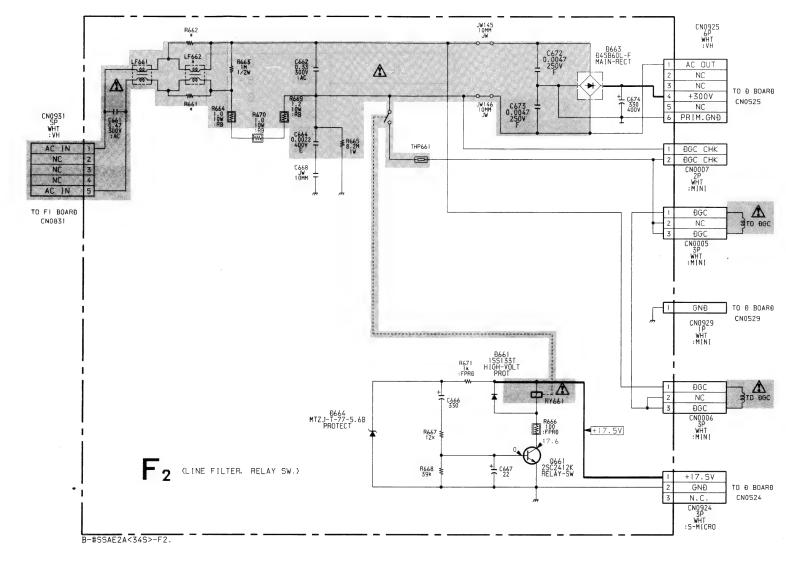


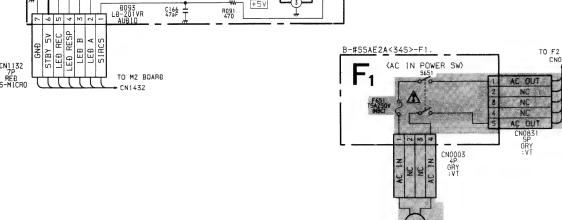




B-: SSAE2A<34S>-H2

(SIRCS RECEIVE, INDICATOR)

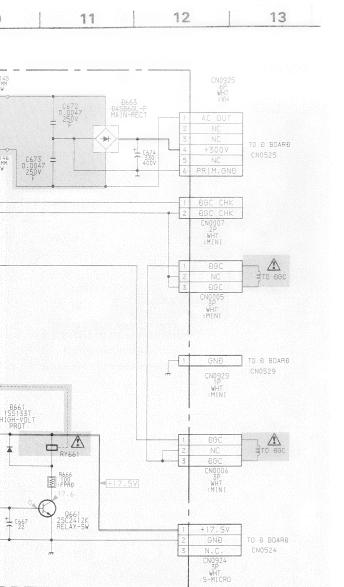




AC IN 220V-240V

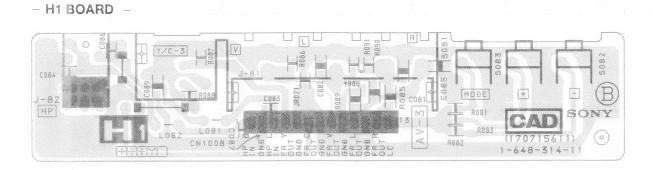
F2 BOARD \* MARK

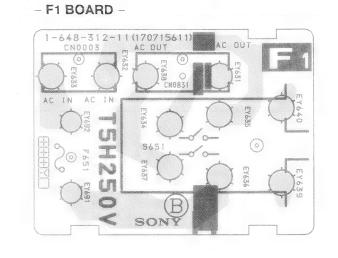
Ref	S3431A	S3431B	S3431D	S3433E	S3431K	S3432U
LF662	LFT	-	LFT	-	-	-
R661	-	JW 10MM	-	JW 10MM	JW 10MM	JW 10MM
R662	-	JW 10MM	-	JW 10MM	JW 10MM	JW 10MM



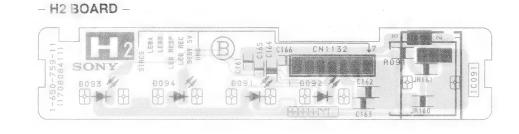
S3431D	S3433E	S3431K	S3432U
LFT	-	_	
-	JW 10MM	JW 10MM	JW 10MM
-	JW 10MM	JW 10MM	JW 10MM

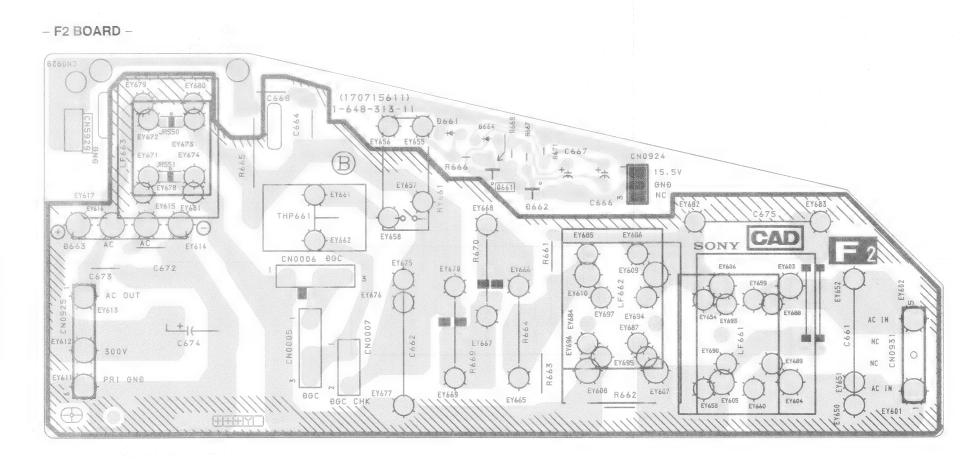






F2 LINE FILTER RELAY SW.

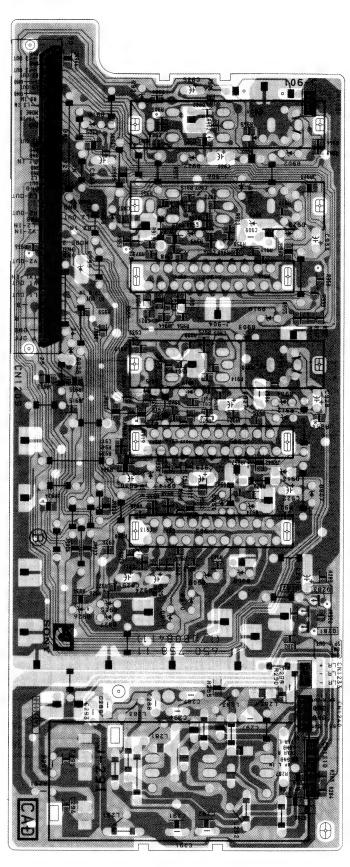


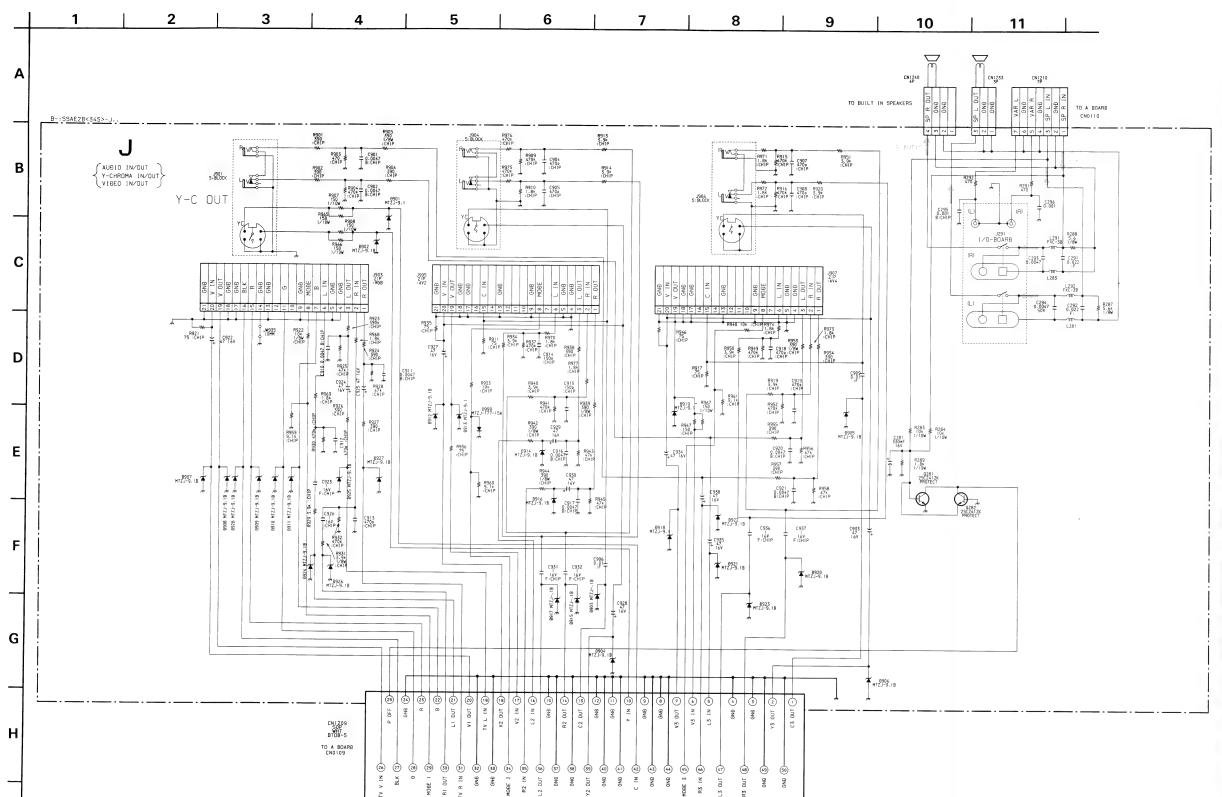


AUDIO IN/OUT
Y – CHROMA IN/OUT
VIDEO IN/OUT

TUNER AUDIO C AV SW, R.G.B. JU







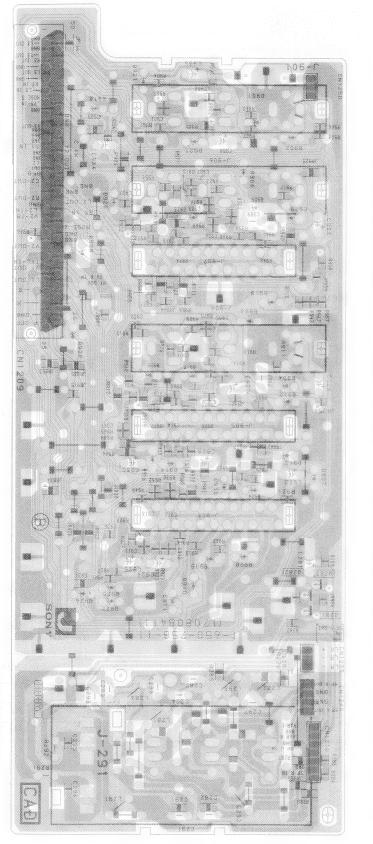
Note:

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.



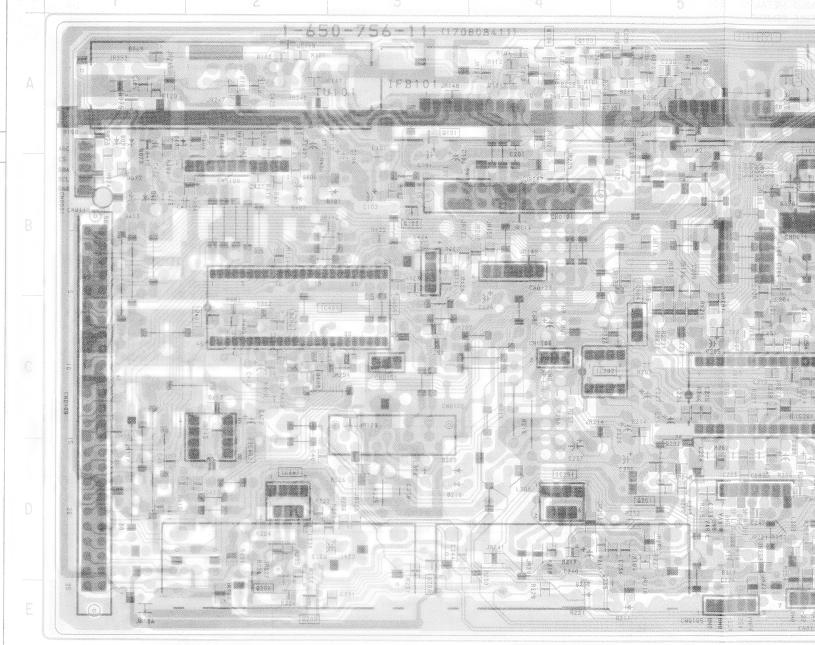
A TUNER AUDIO CONTROL, AUDIO AMP AV SW, R.G.B. JUNGLE, Y/C PROCESSOR

- J BOARD -



	IC	Q404	B - 3
10072	B - 6	Q581	B – 9
10201	C - 6	Q582	B - 9
IC201	C – 6	Q610	E-9
10202	D – 4	Q681	E-7
IC261	D – 4 D – 2	0682	D - 9
10301	A – 8		
10301	A - 10		
IC304	C - 10	DIC	DE
10401	C - 2	D068	B - 7
IC402	D - 2	D069	A-1
10402	D-2 D-9	D009	A - 1
IC684	C-4	D073	A - 1
10685	E - 8	D075	
10000	0	D075	A-1 $B-7$
		D077	B - 7
TRAN	SISTOR	D079	B - 7
Q071	D 8	D101	B - 2
Q101	A - 3	D206	D - 7
Q102	A - 7	D207	E - 7
Q103	A - 3	D208	D - 7
Q201	D - 5	D209	D - 3
0202	D - 5	D210	D - 3
Q203	A - 4	D211	E - 5
Q204	D-3	D212	E-4
Q205	E-2	D213	D - 5
Q206	D-2	D214	C-6
Q207	B - 6	D301	B - 9 · ·
Q209	E - 7	D302	A - 9
Q210	A - 6	D304	B - 10
Q301	A - 7	D305	C - 9
Q302	B - 7	D306	D - 10
Q303	D - 10	D307	D - 10
Q304	D-10	D308	D - 10
Q305	A - 8	D311	C - 9
Q306	D - 10	D312	C - 8
Q308	C - 9	D313	C-7
Q309	e C – 9	D381	C - 8
Q311	C-8	D401	B - 1
Q312	, C - 8	D403	B - 1
Q313	B 8	D405	A - 1
Q314	C-7	D406	B-2
Q315	D-7	D407	B - 2
Q401	C-2	D571	B - 9
Q402	C-2	D681	E - 8
Q403	C-2	D683	D - 9

- A BOARD -

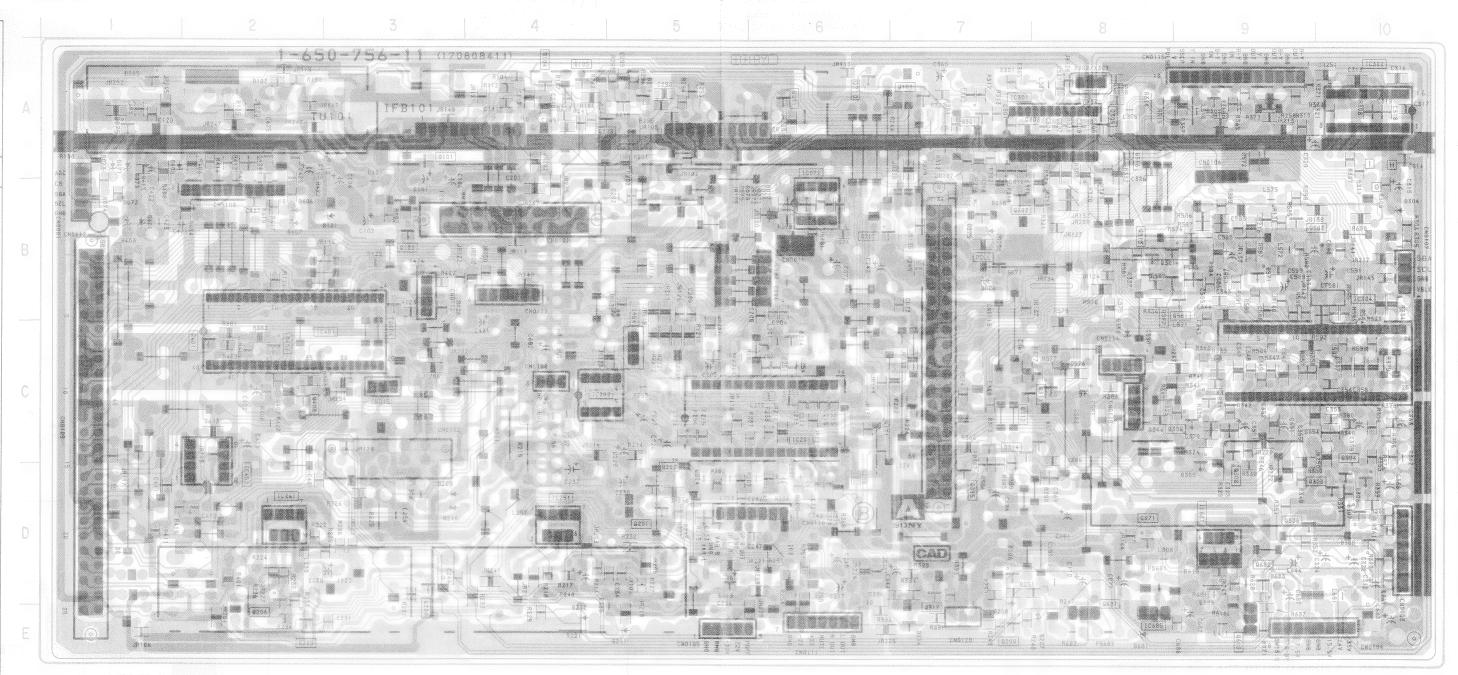


- A BOARD -

Q404 B - 3 Q581 B - 9 Q582 B - 9 Q610 E - 9 Q681 E - 7 Q682 D - 9

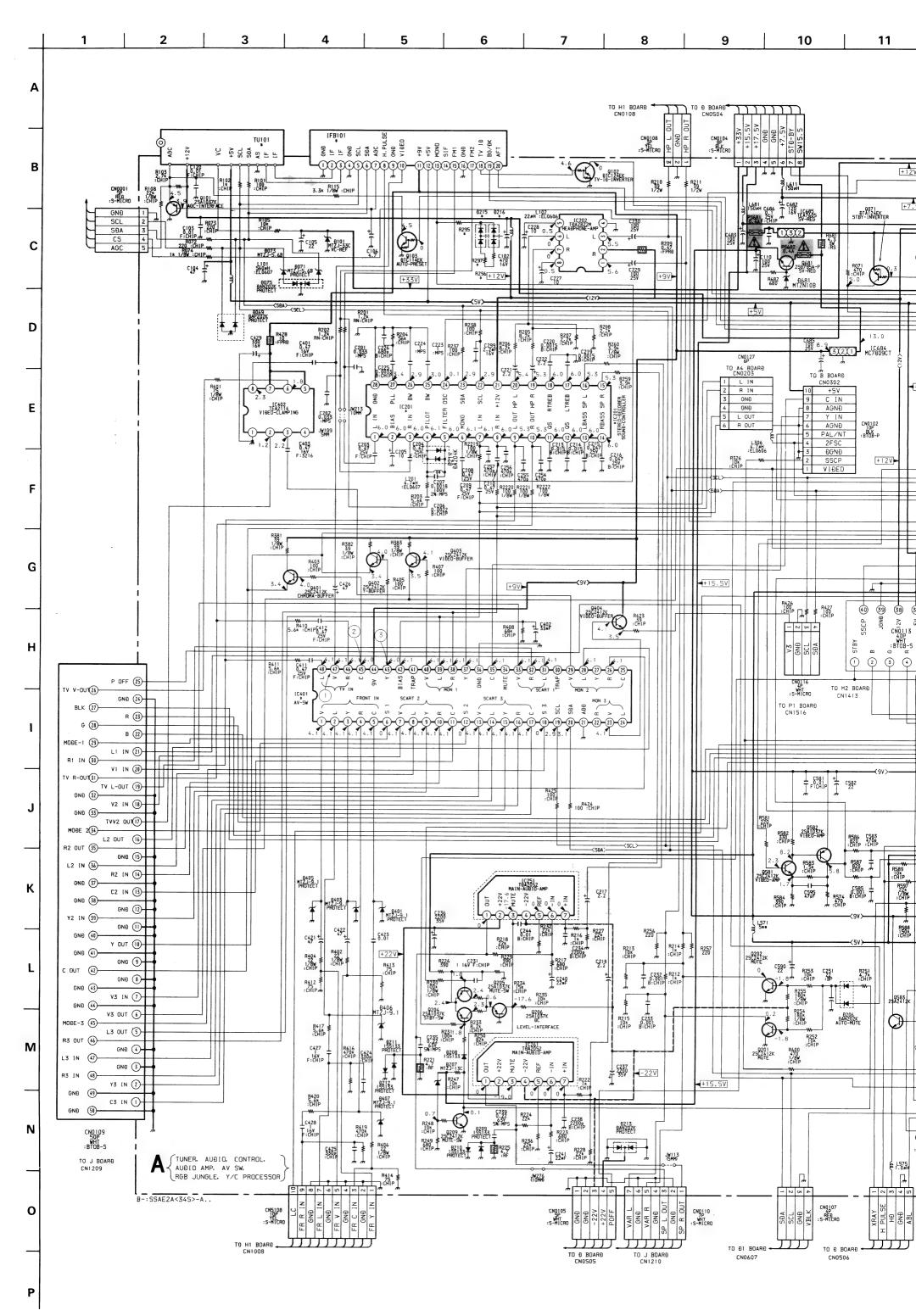
## DIODE

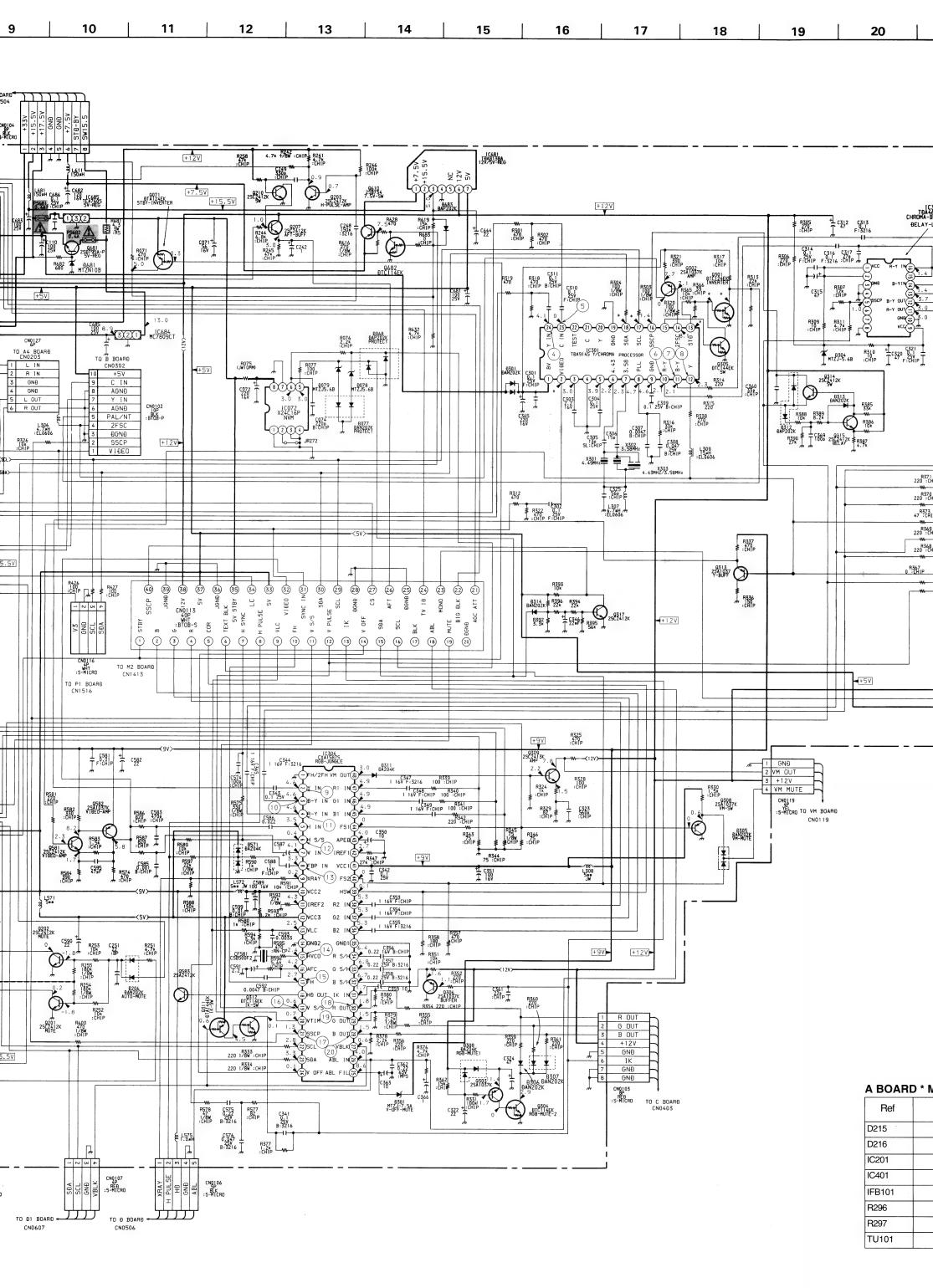
A - 1A-1A - 1B-7B-7B-7B-2 D-7E-7 D-7D-3 D-3 E-5 E-4 D-5 B - 9 A - 9B - 10C - 9 D - 10D-10 D - 100312 C - 80381 A - 1

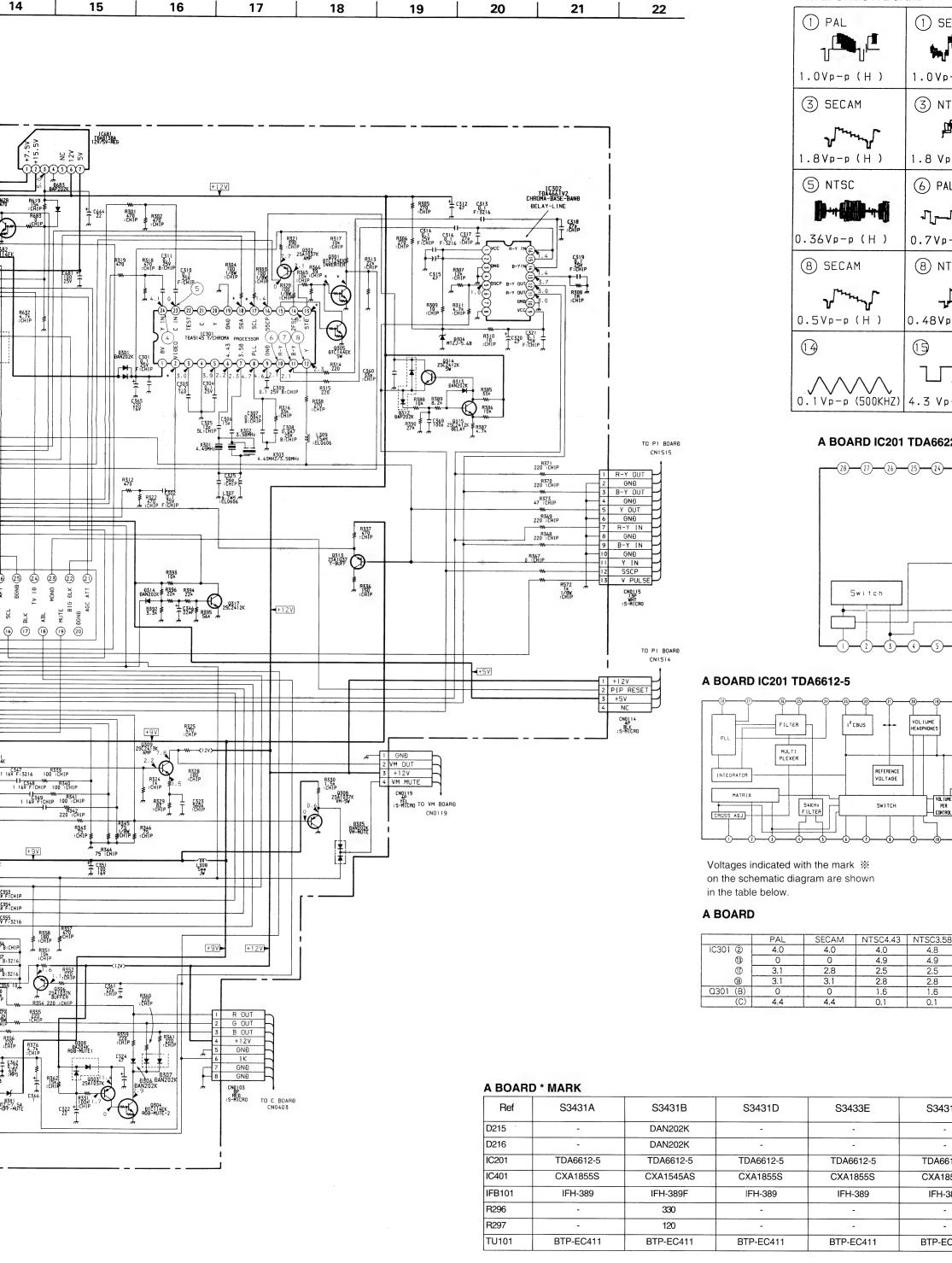


### Note:

- · Pattern from the side which enables seeing.
- · Pattern of the rear side.





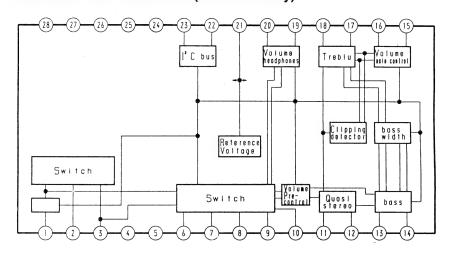


**WAVEFORMS A BOARD** 

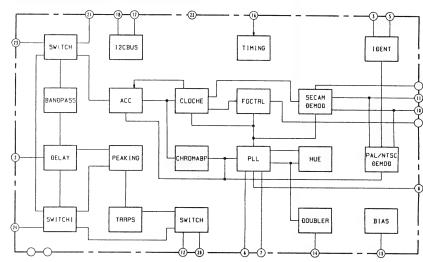
### **WAVEFORMS A BOARD**

1) PAL	1 SECAM	1 NTSC	② PAL	② SECAM	② NTSC	3 PAL
	Series Series	7	<b>1 1 1</b>		19 ··· (111) ··· (1)	Marray
1.0Vp-p (H)	1.0Vp-p (H)	1.0Vp-p (H)	1.4Vp-p (H)	0.7 Vp-p (H)	0.75Vp-p (H )	1.7 Vp-p (H)
3 SECAM	3 NTSC	4 PAL	4 SECAM	4 NTSC	(5)	S SECAM
Jane Jane	Jan Brand	John Jan	January L	Jetale Jetale	D-11	
1.8Vp-p (H )	1.8 Vp-p (H )	1.0Vp-p (H )	1.1Vp-p (H)	1.3 Vp-p (H)	0.7 Vp-p (H )	0.4Vp-p(H)
5 NTSC	6 PAL, NTSC	6 SECAM	7 PAL	7 SECAM	7 NTSC	8 PAL
B	7[[][]	17-17-17-	<u>1717-1717-1717-</u>	<u></u>	<u> </u>	Johnson J.
0.36Vp-p (H )	0.7Vp-p(H)	1.1Vp-p (H)	1.0 Vp-p (H)	1.6Vp-p (H )	0.85Vp-p (H )	0.4Vp-p (H)
8 SECAM	8 NTSC	9	10	10	12	13
Marray		Marray	<u></u>	11-11-11-		տ <u>_</u> խտ_խտ_խ
0.5Vp-p (H )	0.48Vp-p (H )	0.4 Vp-p (H )	1.9 Vp-p (H)	1.4 Vp-p (H)	4.8 Vp-p (H )	6.4Vp-p (H)
13	(1)	(6)	17	18	19	20
			_//_	1,701,1		ռշխուշխուշխո
0 1 Vp = n (500KHZ)	4.3 Vp-p (H)	4.3 Vp-p (V)	8.0Vp-p (H)	2.8 Vp-p (H)	2.4Vp-p(H)	2.3Vp-p(H)

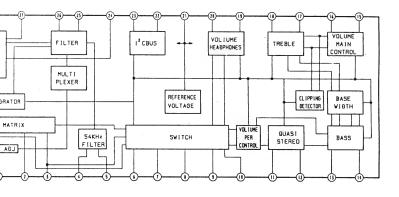
## A BOARD IC201 TDA6622-5 (UK Model only)



### **A BOARD IC301 TDA9145/N2B**



# ARD IC201 TDA6612-5

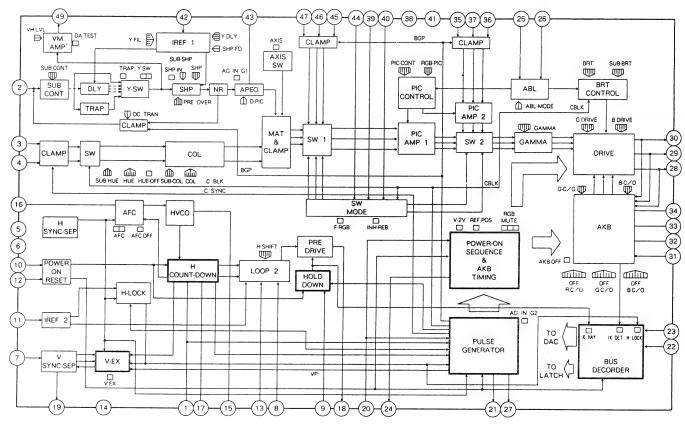


ges indicated with the mark % e schematic diagram are shown table below.

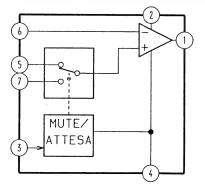
## ARD

	PAL	SECAM	NTSC4.43	NTSC3.58
2	4.0	4.0	4.0	4.8
13	0	0	4.9	4.9
1	3.1	2.8	2.5	2.5
18	3.1	3.1	2.8	2.8
(B)	0	0	1.6	1.6
(C)	4.4	4.4	0.1	0.1

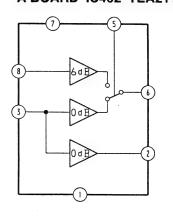
## A BOARD IC304 CXA1587S



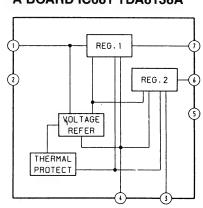
## A BOARD IC251/261 TDA2052



# A BOARD IC402 TEA2114

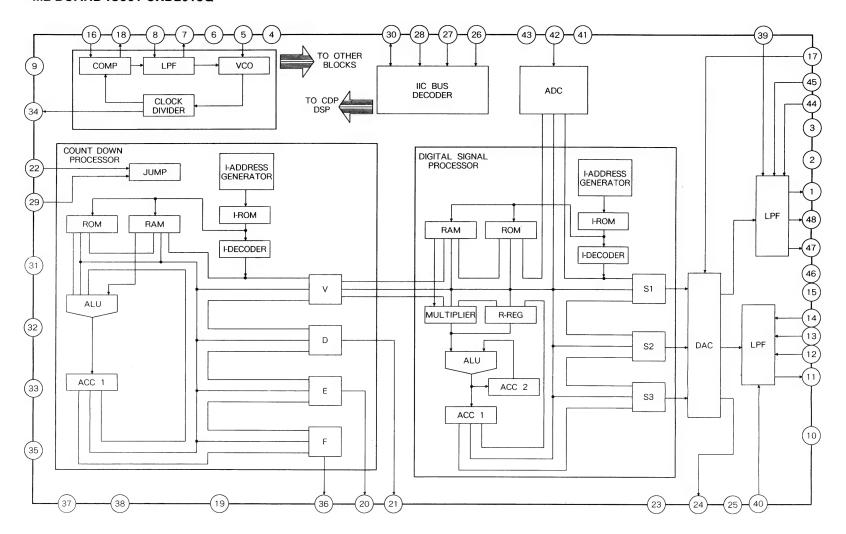


# A BOARD IC681 TDA8138A

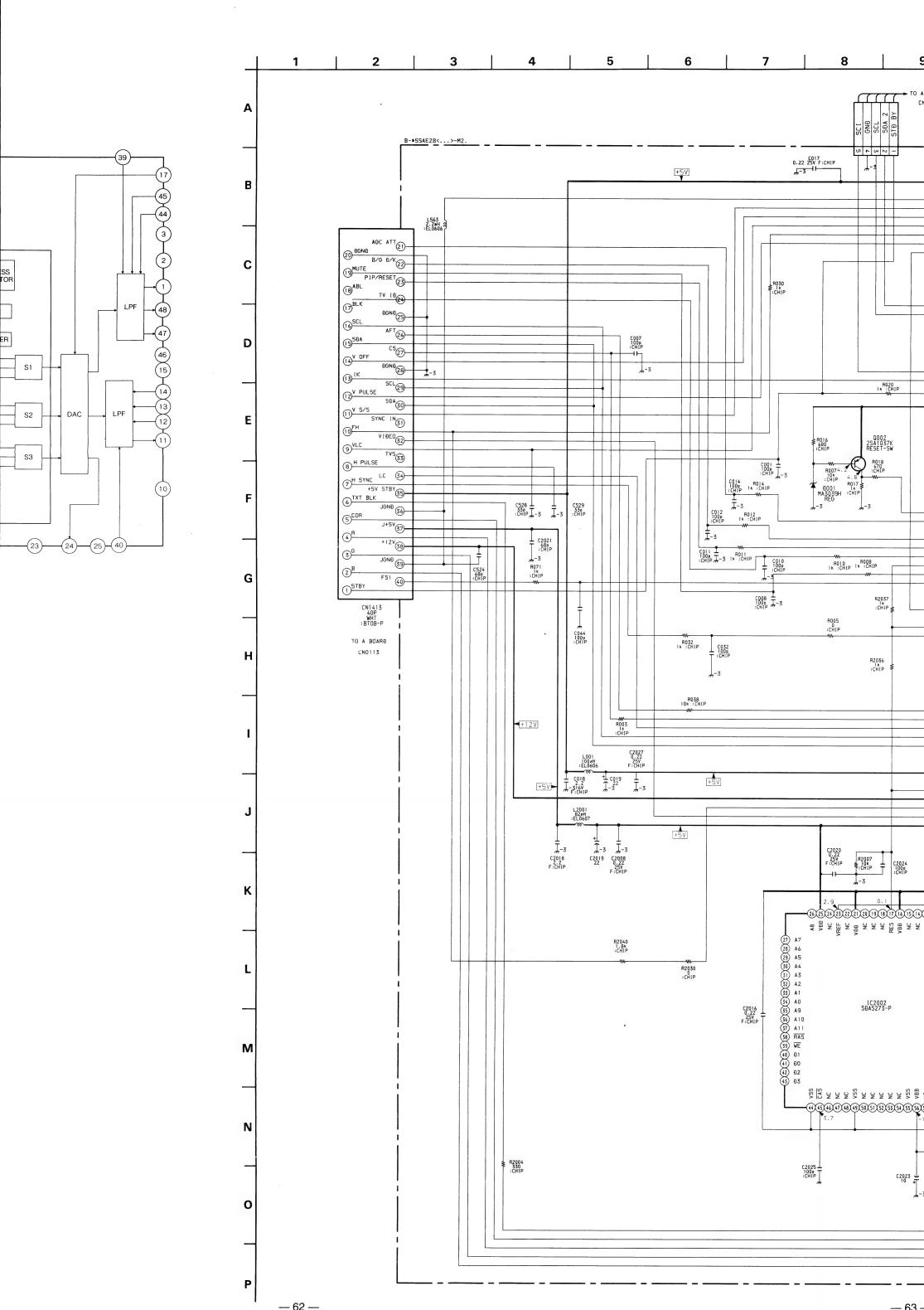


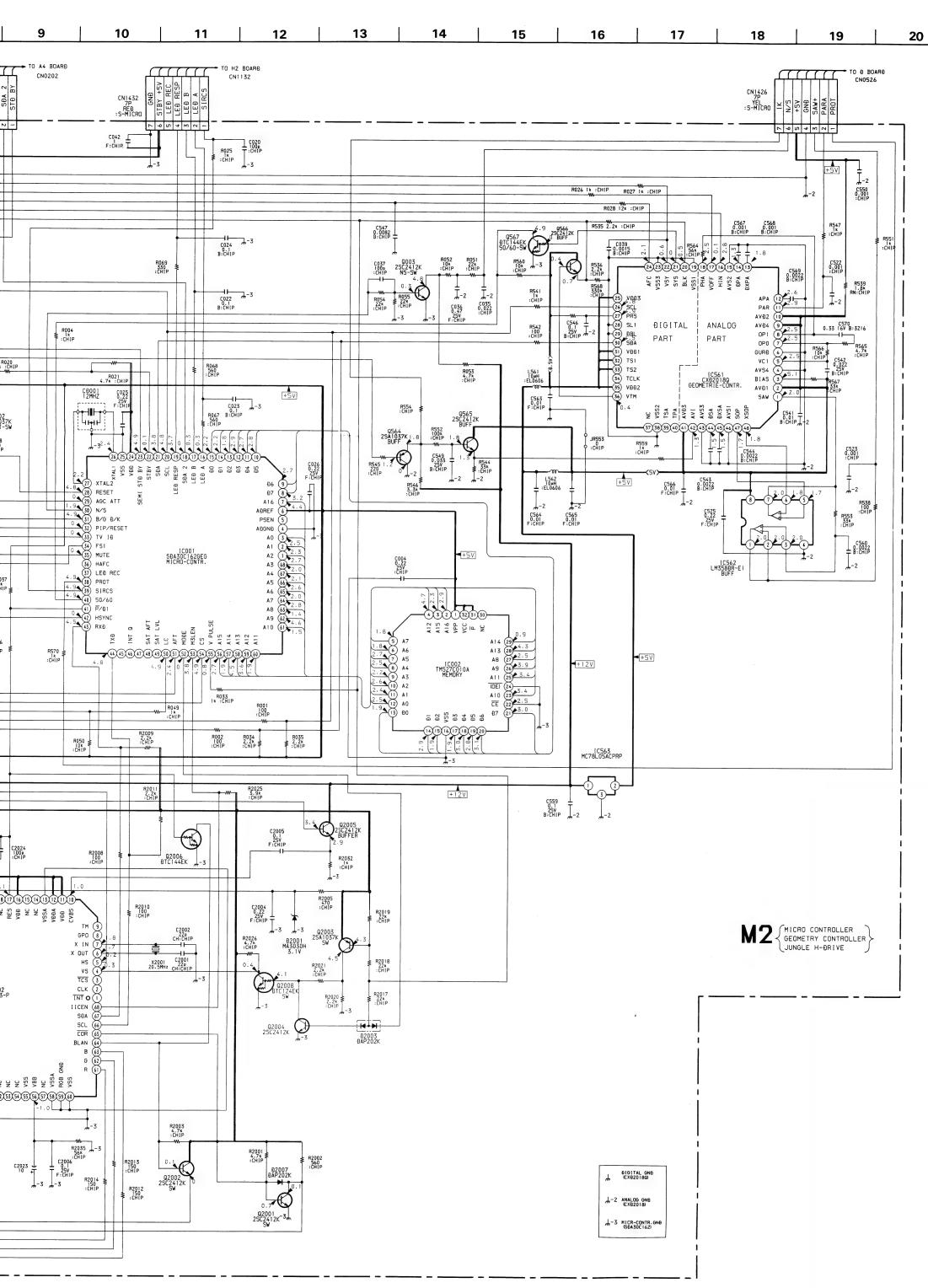
S3433E	S3431K	S3432U
-	-	-
-	-	-
TDA6612-5	TDA6612-5	TDA6622-5
CXA1855S	CXA1855S	CXA1855S
IFH-389	IFH-389	IFH-395
-	-	-
-	-	-
BTP-EC411	BTP-EC411	U944C
	- TDA6612-5 CXA1855S IFH-389 -	

## **M2 BOARD IC561 CXD2018Q**

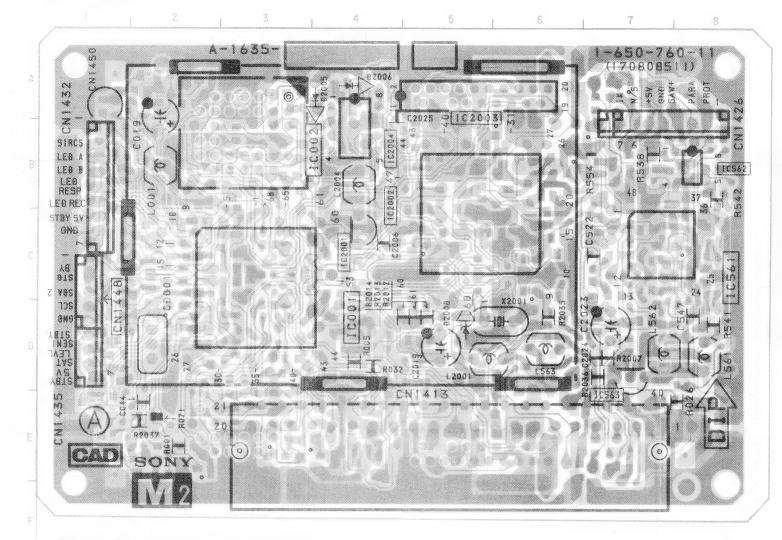


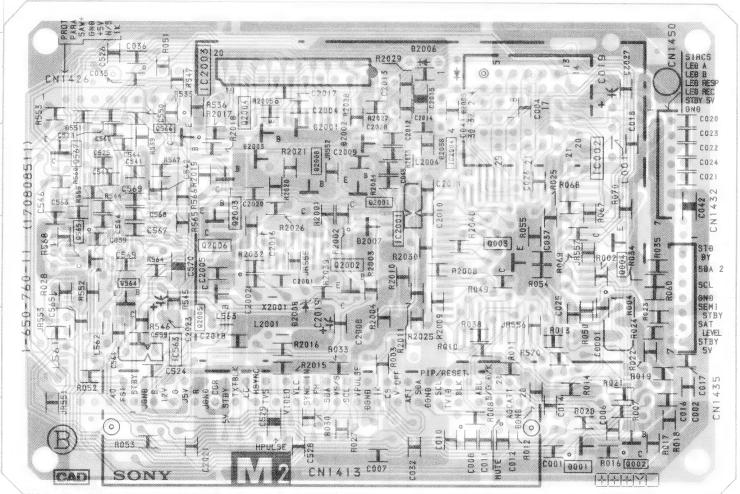
- 60 <del>---</del>





- M2 BOARD -





## Note:

- · Pattern from the side which enables seeing
- : Pattern of the rear side.

## WAVEFORMS D BOARD

prom			
And in the part of the first of		2	3
			, market
	240Vp-p (H )	180 Vp-p (V)	1.2Vp-p (V)
	4	(5)	
6	57.0Vp-p(V)	4.2 Vp-p (H)	170 Vp-p (H)
	7	8	9
			111
	950 Vp-p (H)	9.0 Vp-p (H <sub>g</sub> )	9.5 Vp-p (H)
	10		12
		ماساسا	
	19.0Vp-p(H)	17.5Vp-p(H)	6.4 Vp-p (H)

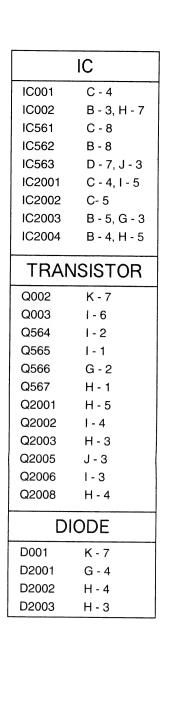
IC		
IC001	C - 4	
IC002	B - 3, H - 7	
IC561	C - 8	
IC562	B - 8	
IC563	D - 7, J - 3	
IC2001	C - 4, I - 5	
IC2002	C- 5	
IC2003	B - 5, G - 3	
IC2004	B - 4, H - 5	

В

G

	IRA	NSISTOR
	Q002	K - 7
	Q003	1-6
-	Q564	1 - 2
October Spinster	Q565	1-1
	Q566	G - 2
and the same of the same of	Q567	H - 1
-	Q2001	H - 5
and and an artist of	Q2002	1-4
and and an extension of the	Q2003	H - 3
-	Q2005	J - 3
-	Q2006	1 - 3
	Q2008	H - 4

DIODE				
D001	K - 7			
D2001	G - 4			
D2002	H - 4			
D2003	H - 3			



Α

В

C

D

Ε

F

G

Н

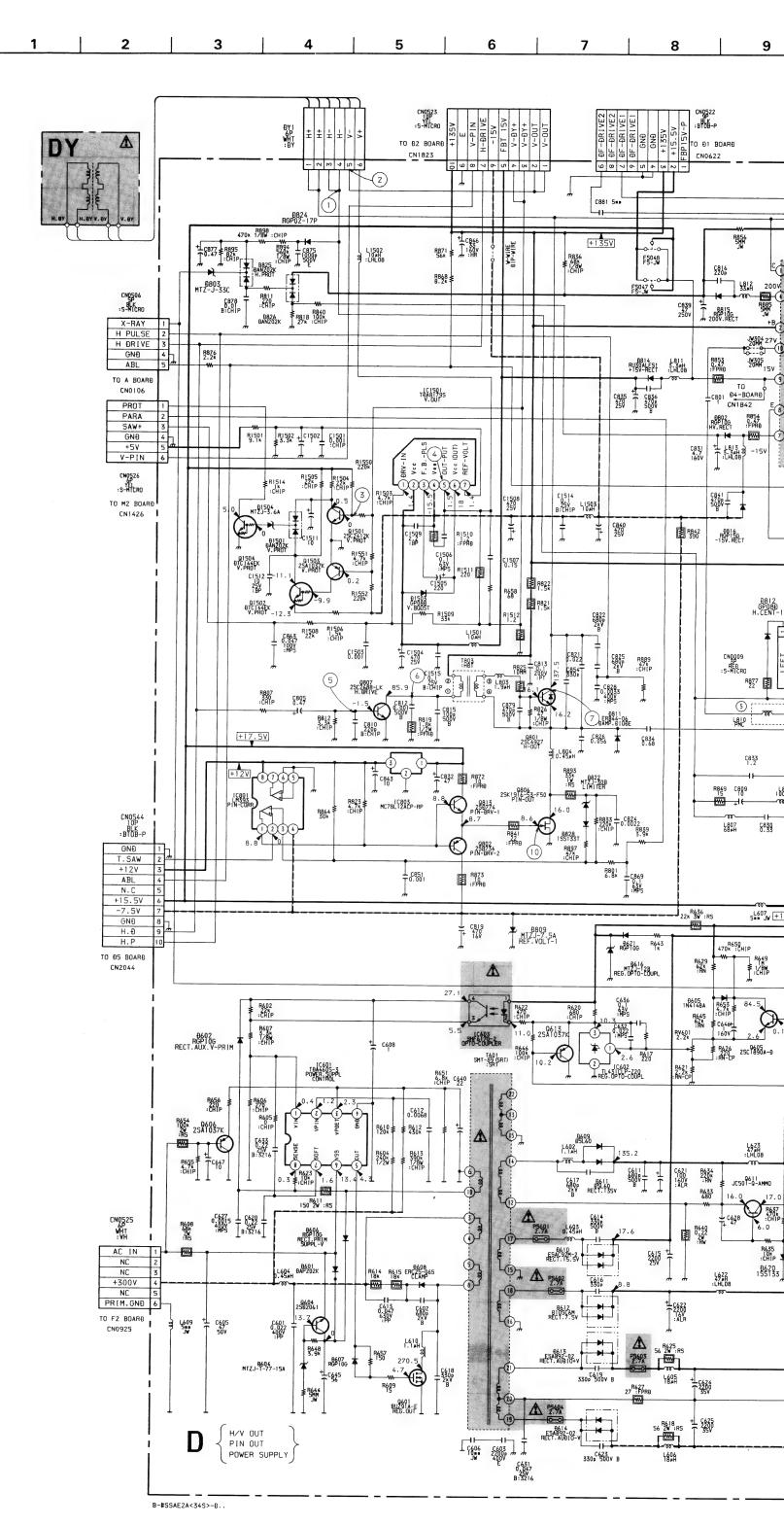
K

L

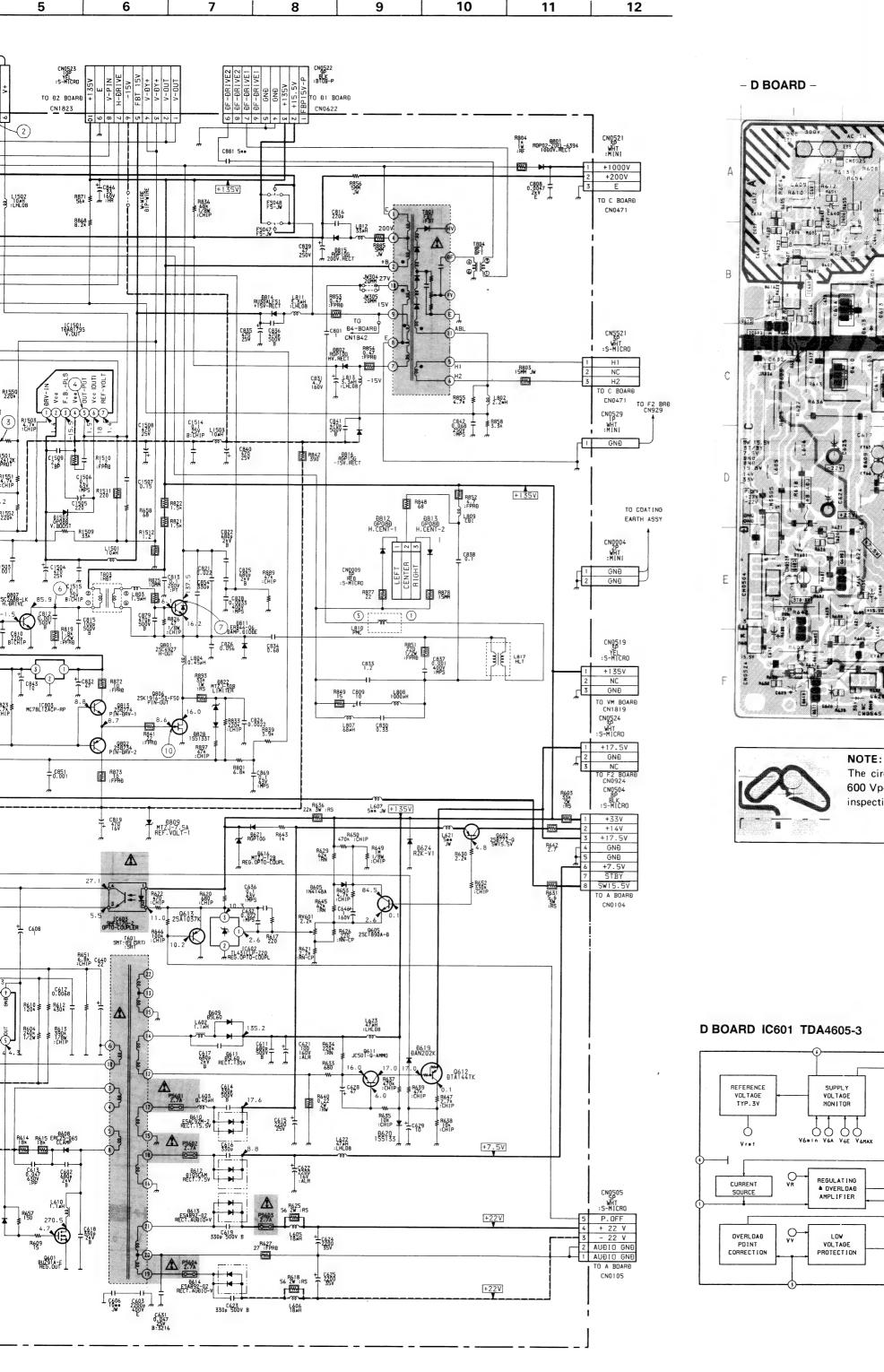
M

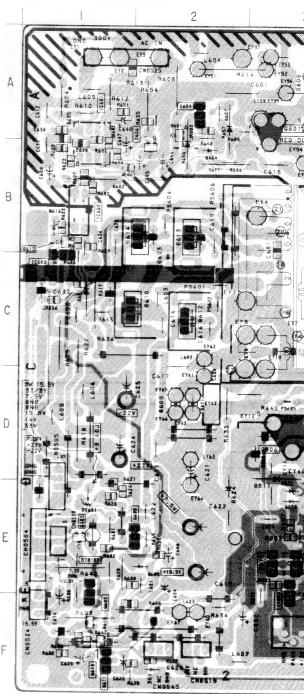
N

0

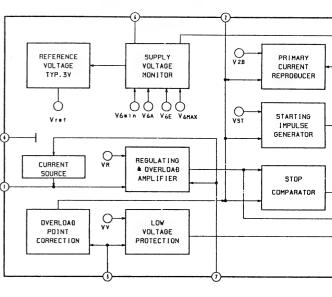


**—** 66 **—** 

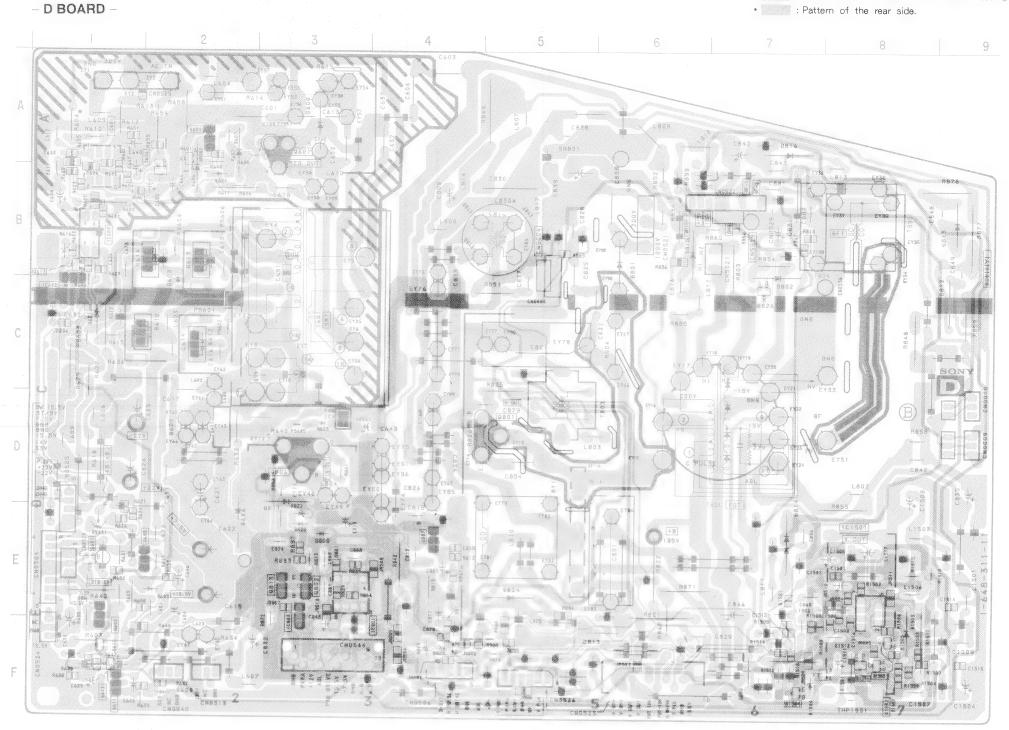




The circuit indicated as left 600 Vp-p. Care must be paid t inspection or repairing.



- Pattern from the side which enables seeing.
- Pattern of the rear side.

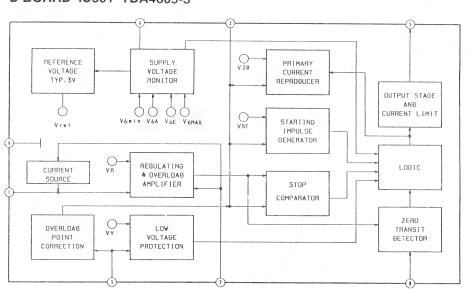




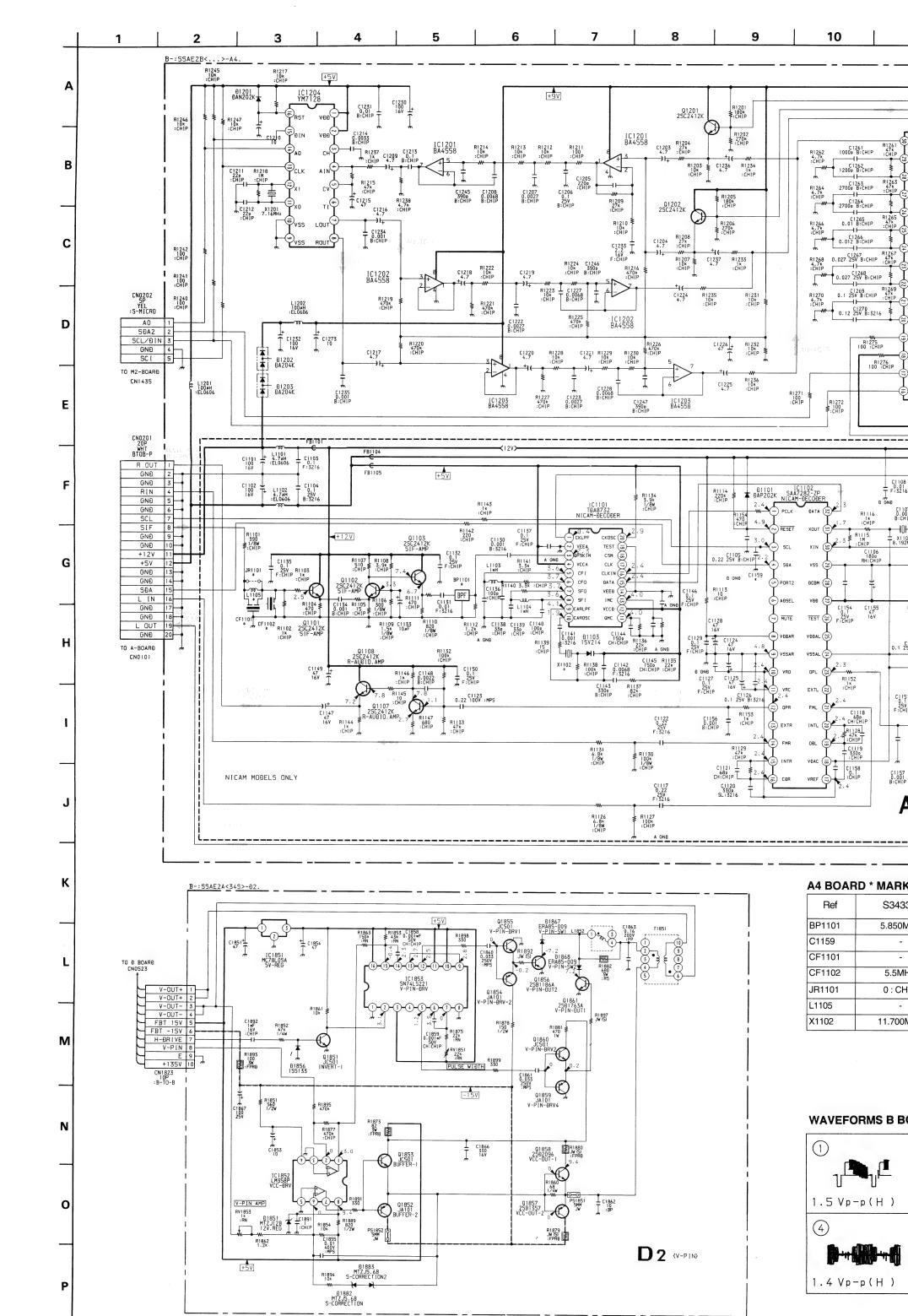
## NOTE:

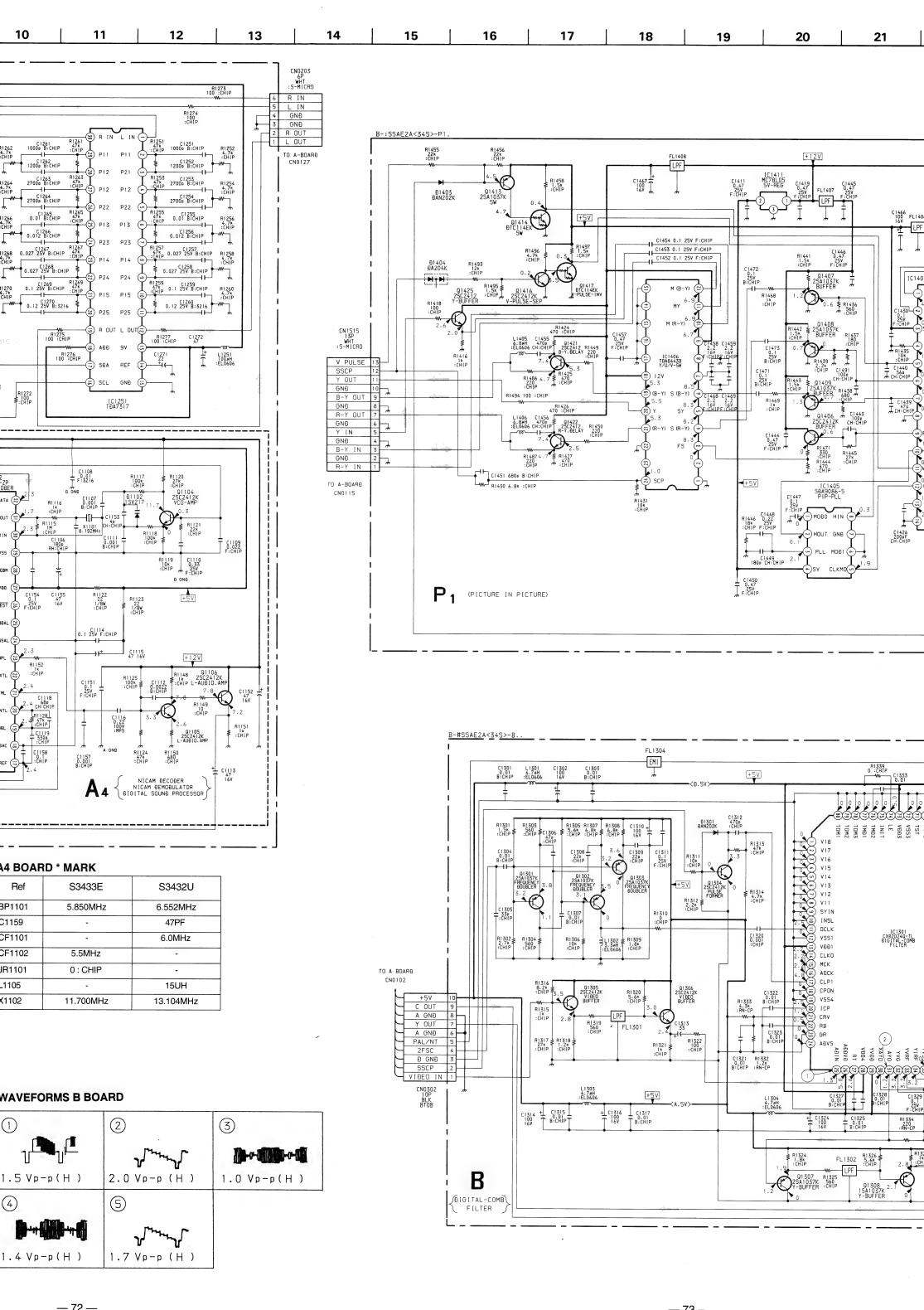
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

# D BOARD IC601 TDA4605-3

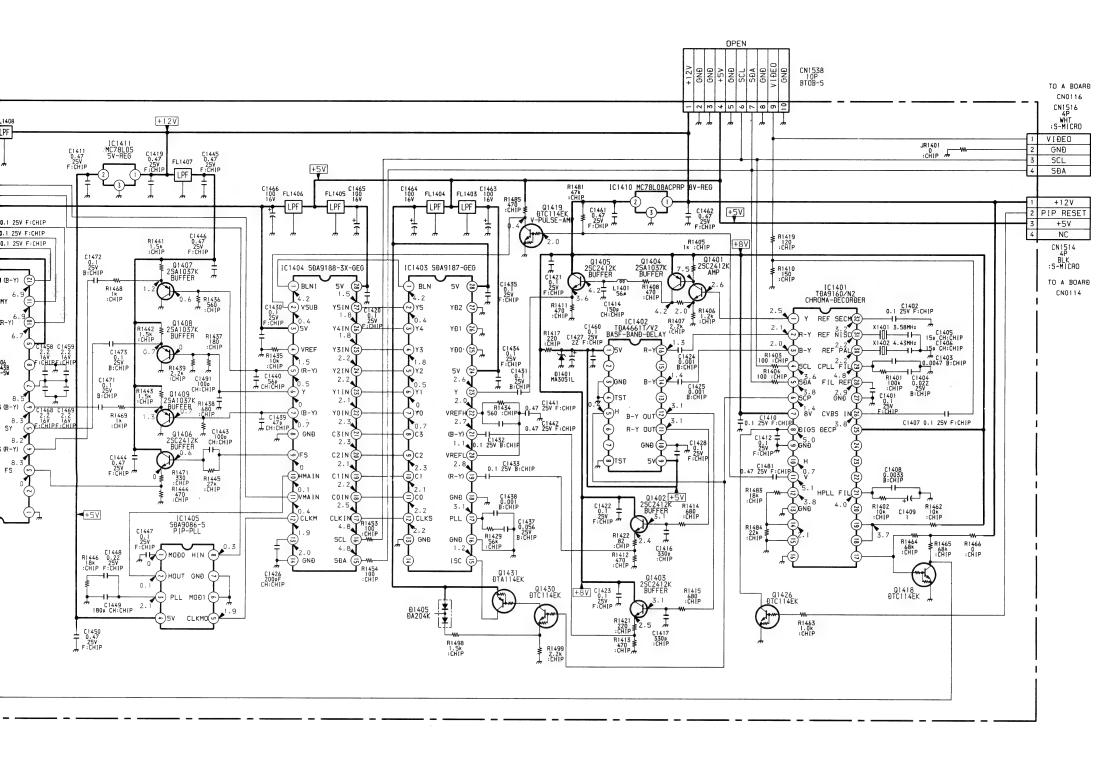


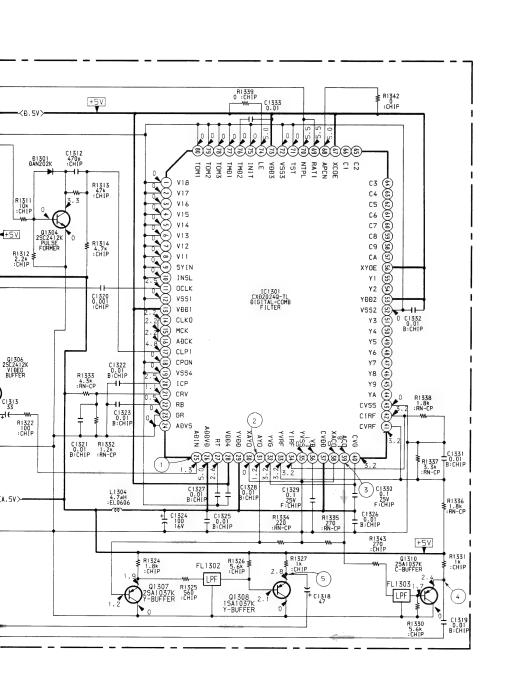
C
DIODE
D601 A - 2 D602 B - 1 D604 B - 2 D605 E - 2 D606 B - 2  VARIABLE RESISTOR  RV601 E - 1

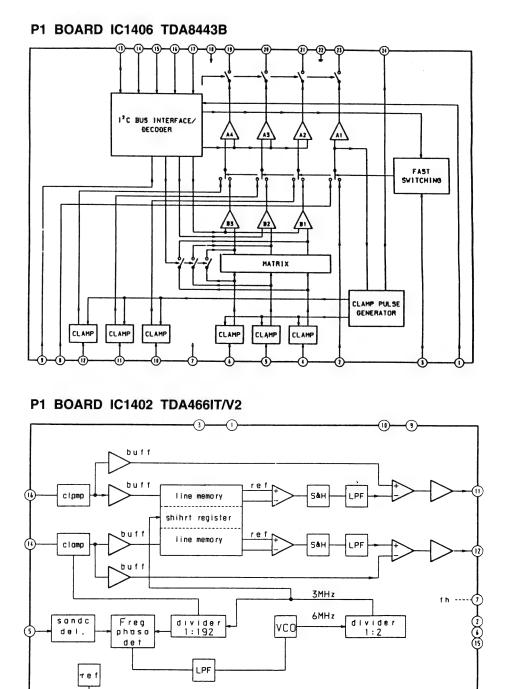












– 73 —

∙**⊙** 

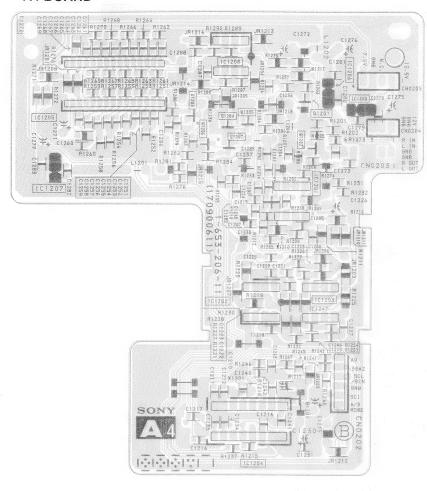
KV-S343

KV-S343

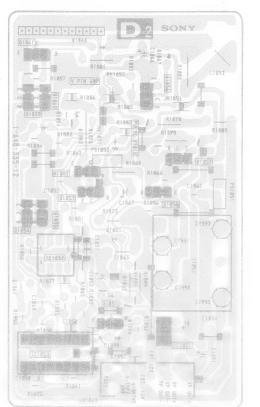




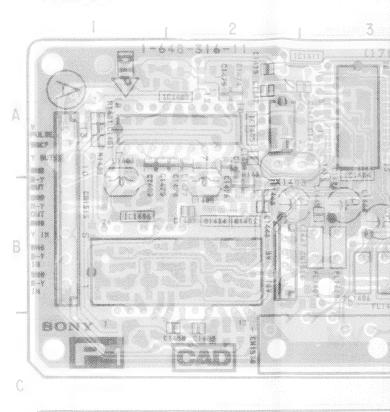
## - A4 BOARD -

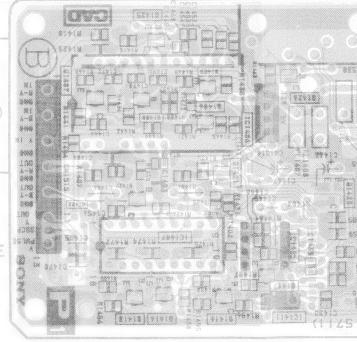


### - D2 BOARD -









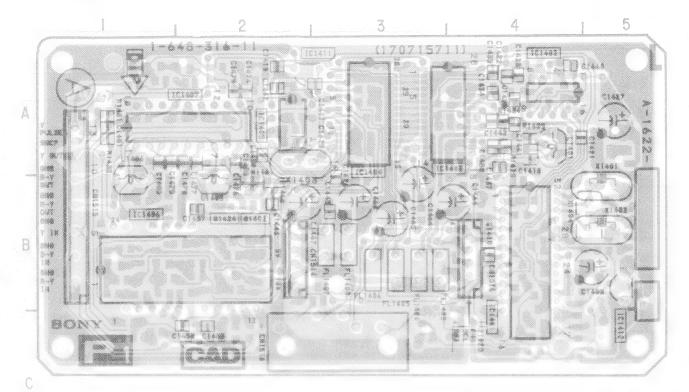
**/-**S343

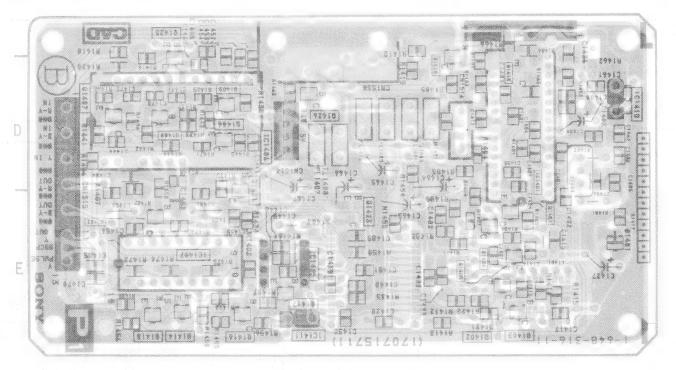
ИВ 🗌

DARD -



- P1 BOARD -





	10	C
	IC1401 IC1402 IC1403 IC1404 IC1405 IC1406 IC1410 IC1411	B-4, D-4 A-4 A-3 A-3 A-2, E-2 B-1, D-2 B-5, D-5 A-2, E-2
	TRANS	SISTOR
	Q1413 Q1414 Q1416 Q1417 Q1419	E - 4 E - 4 E - 4 E - 4 E - 4 D - 2 D - 1 D - 1 D - 2 E - 1 E - 2 E - 2 D - 4 E - 2 E - 2 E - 1
	Q1425 Q1426	D - 2 D - 3
-		DE
	D1401	E - 5

### Note:

- Pattern from the side which enables seeing.
- · Pattern of the rear side.



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		299		
		TWE IX		
	91415	.)(s	5	
	()   Ç	9 6 9	-1	

ſ		IC
	IC1401	B – 4, D – 4
	IC1402	A – 4
-	IC1403	A - 3
	IC1404	A - 3
	IC1405	A - 2, $E - 2$
	IC1406	B - 1, D - 2
	IC1410	B - 5, D - 5
	IC1411	A - 2, $E - 2$
ŀ	La Company	Augusta j
	TRAN	SISTOR
	Q1401	E-4
	Q1402	E-4
	Q1403	E-4
	Q1404	E - 4
	Q1405	E-4
	Q1406	D-2
-	Q1407	D - 1
-	Q1408	D – 1
-	Q1409	D - 2
1	Q1413	E - 1
	Q1414	E - 2 - 2
	Q1416	E – 2
	Q1417	E - 2
	Q1419	D - 4
.		E - 2
	Q1422	E+1005
1	01425	D - 2

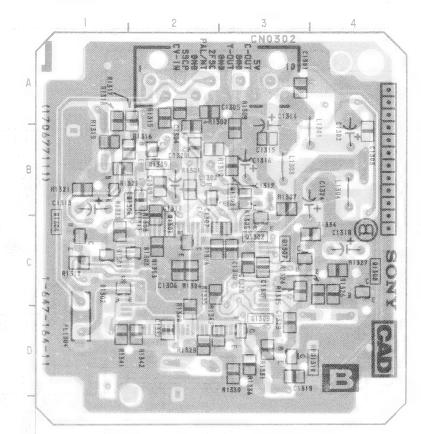
Q1425 D - 2 Q1426 D - 3

DIODE

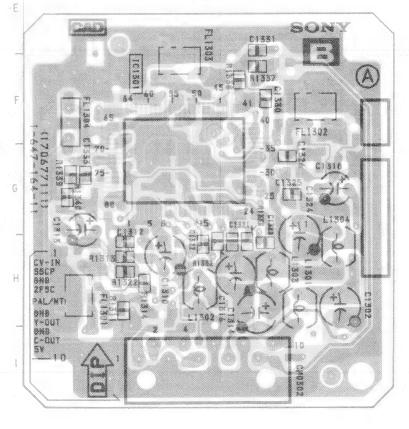
D1401 E-5

which enables seeing.

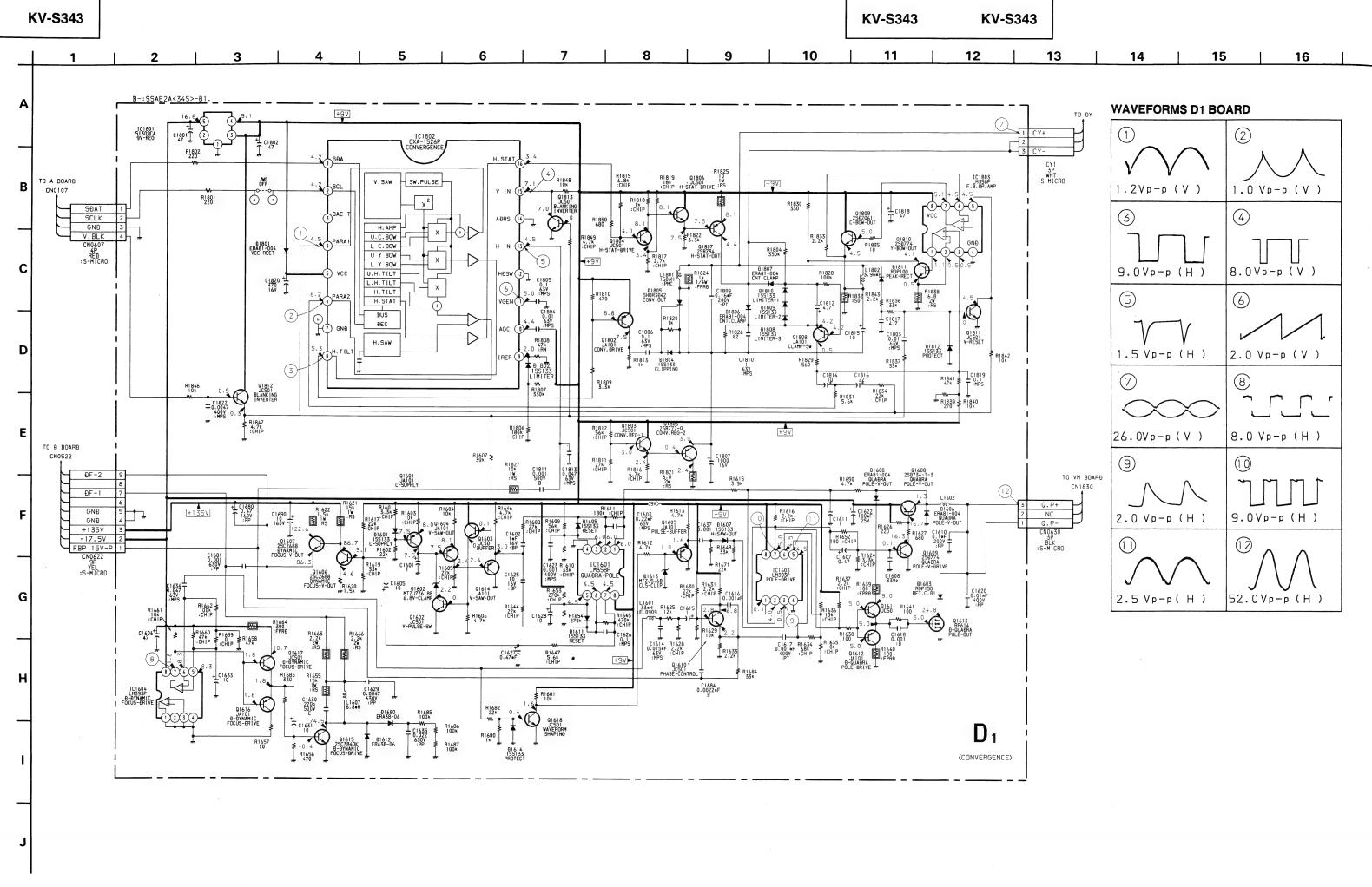
- B BOARD -



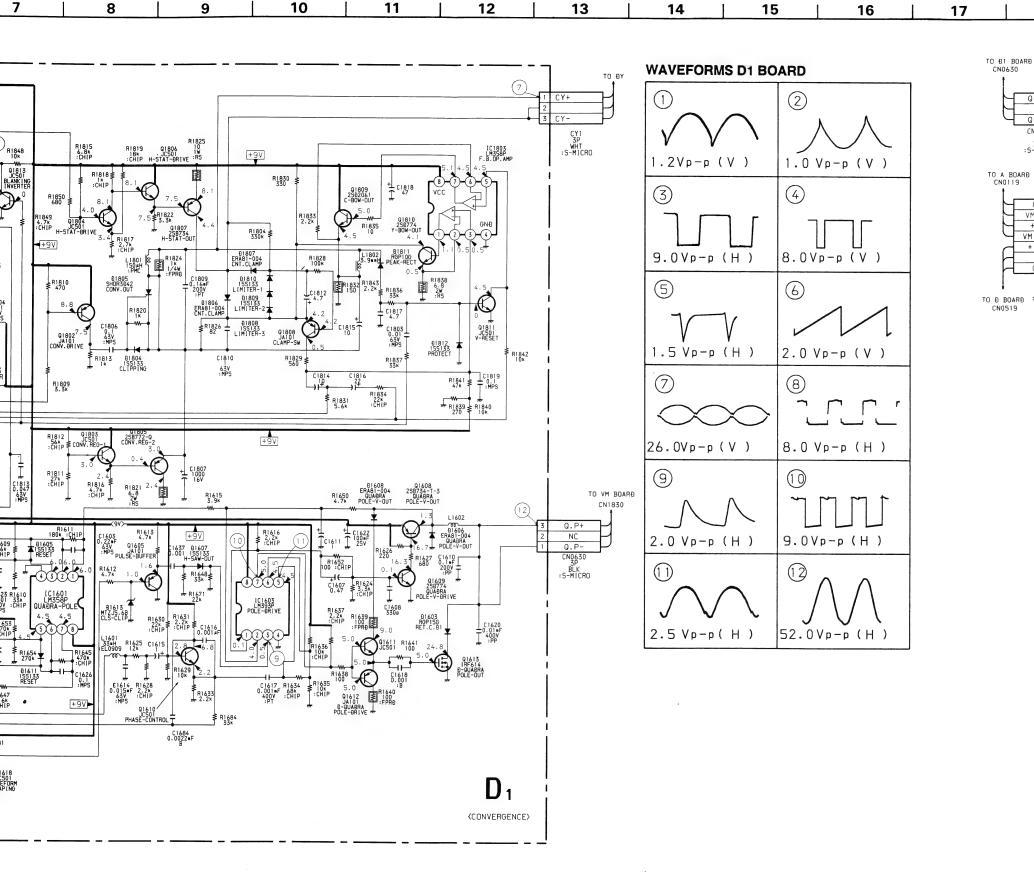
	, and the property	IC			
	IC1301	G – 2			
	TRAN	SISTOR			
	Q1301	C - 2			
	Q1302	B - 3			
	Q1303	B - 2			
	Q1304	C - 1			
	Q1305	B - 2			
	Q1306	B - 1			
-	Q1307	C - 3			
	Q1308	C - 4			
	Q1310	D – 3			
	DIODE				
	D1301	C - 1			

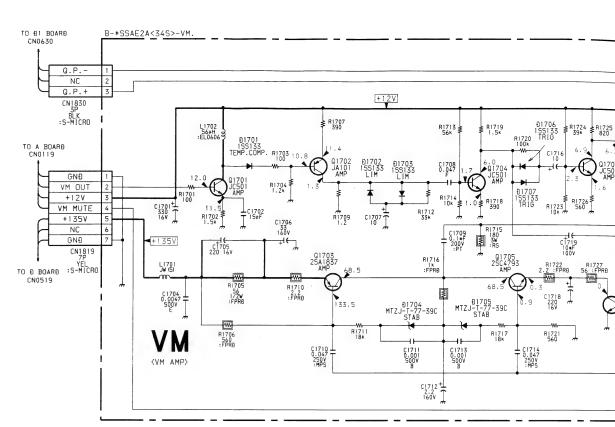


• Pattern of the rear side.





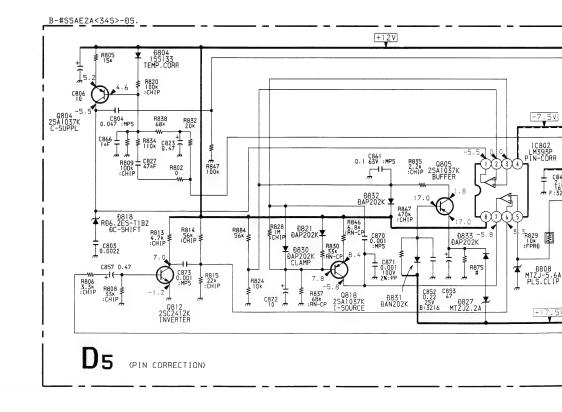


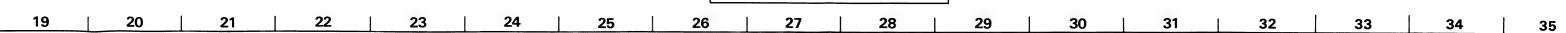


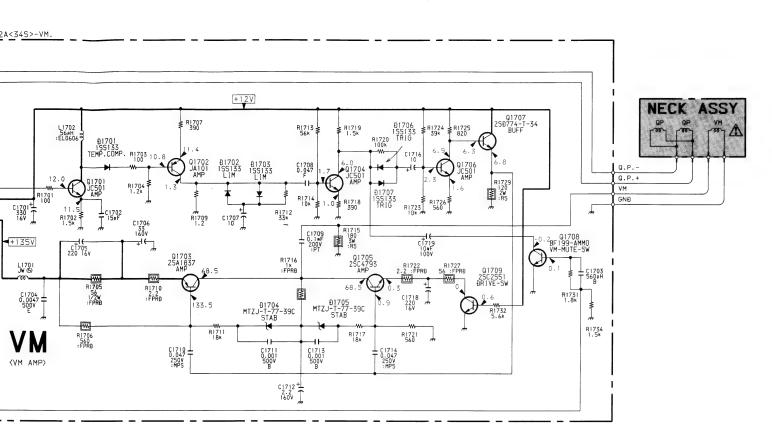
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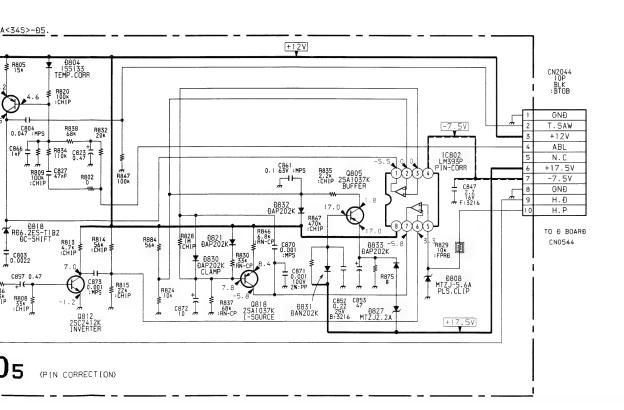
18

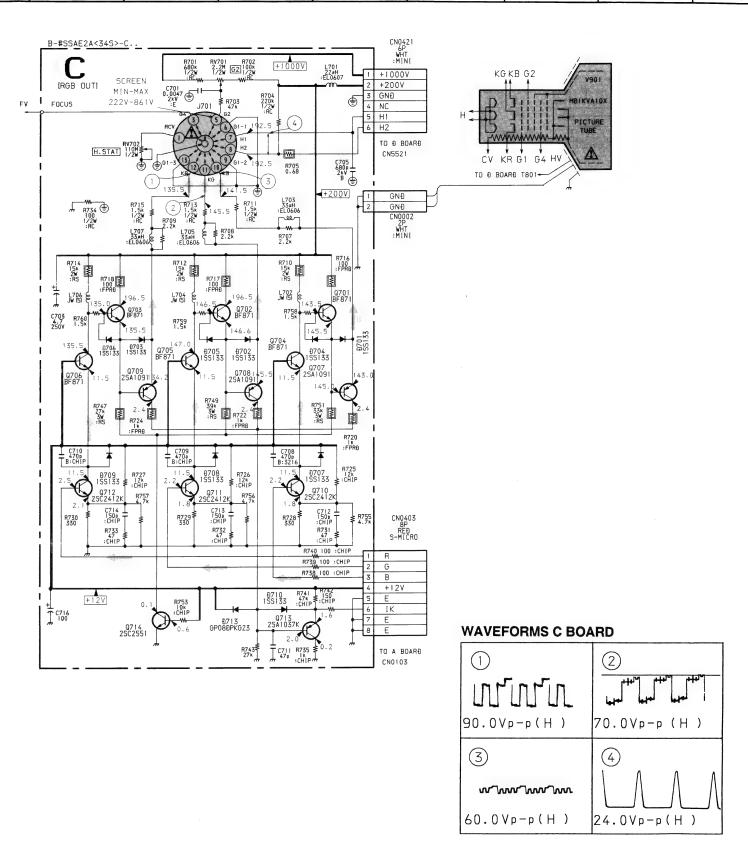
19

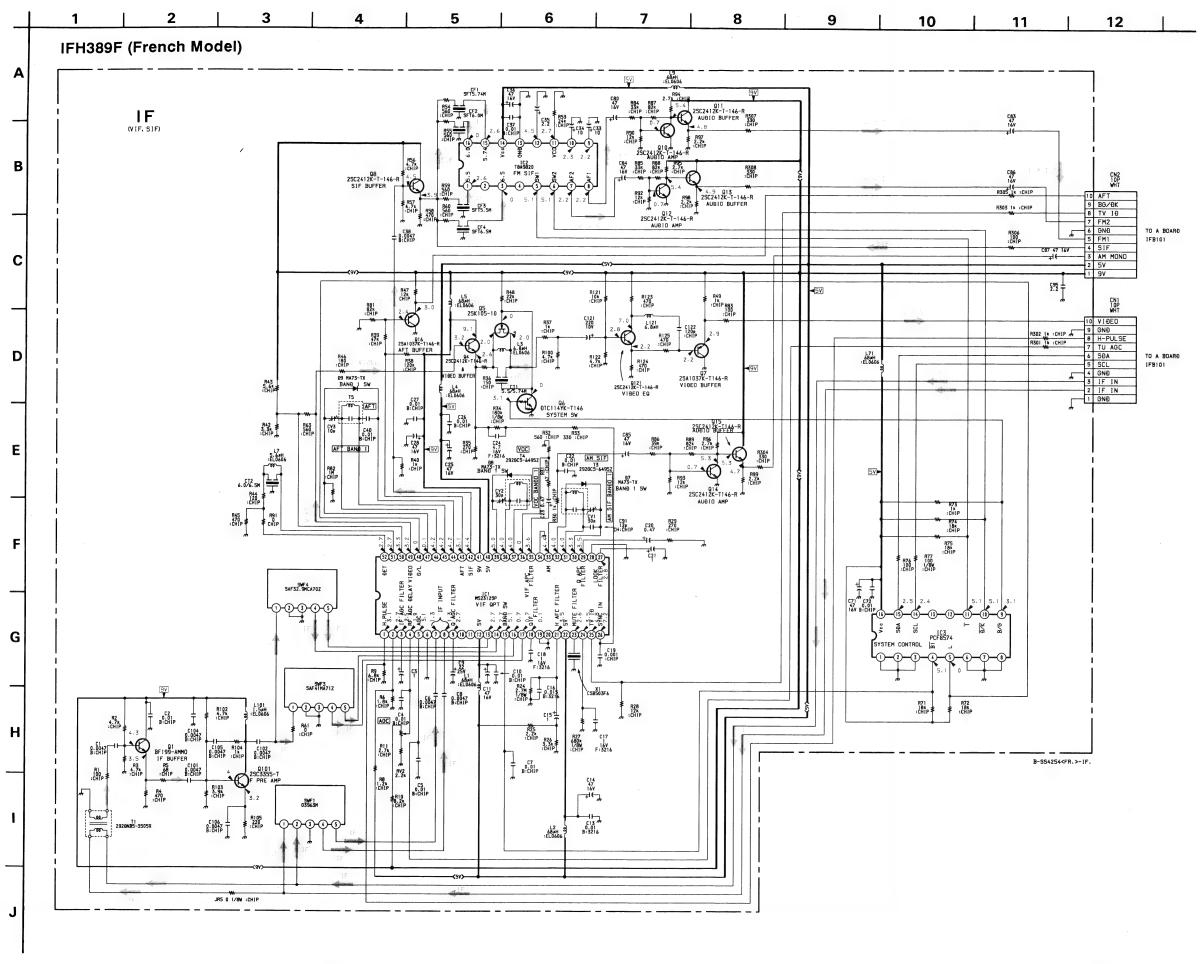




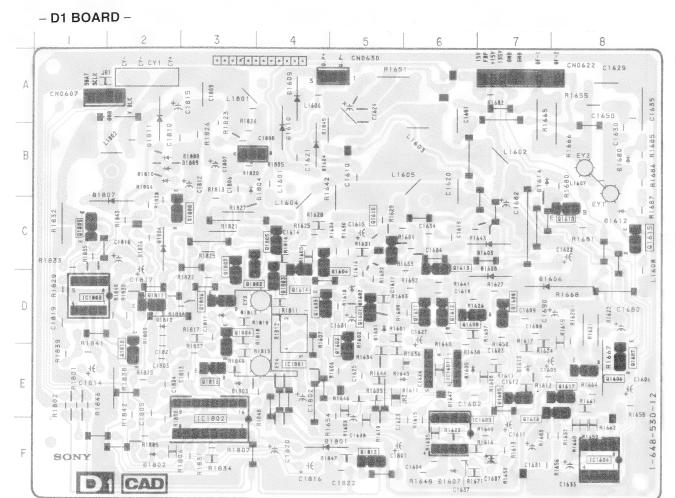






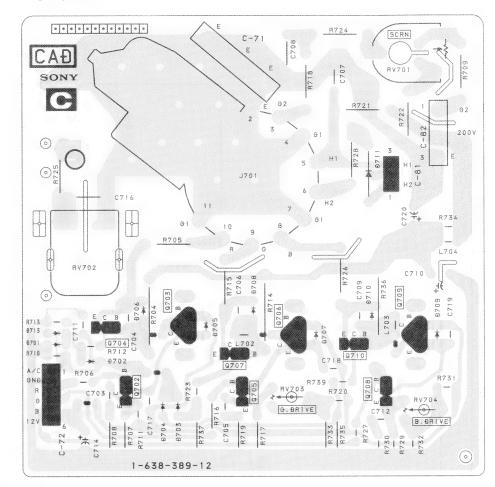




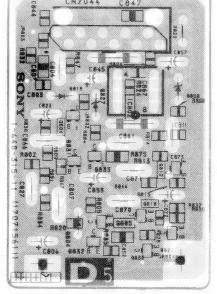


IC		Q1807	C – 3
IC1601 IC1603 IC1604 IC1801 IC1802 IC1803	E-6 F-6 F-8 D-4 E-3 D-1	Q1808 Q1809 Q1810 Q1811 Q1812 Q1813	C - 2 C - 1 E - 1 D - 2 F - 5 E - 3
TRANS	ISTOR	DI	ODE
Q1601 Q1602 Q1603 Q1604 Q1605 Q1606 Q1607 Q1608 Q1609 Q1610 Q1611 Q1612 Q1613 Q1614 Q1615 Q1616 Q1617 Q1618 Q1617 Q1618 Q1803 Q1804 Q1805 Q1806	D-5 D-4 C-7 E-8 D-7 C-6 D-7 C-6 D-6 C-8 E-8 C-8 C-3 D-3 C-4 D-3	D1601 D1602 D1603 D1605 D1606 D1607 D1608 D1611 D1612 D1613 D1614 D1680 D1801 D1802 D1804 D1805 D1806 D1807 D1808 D1807 D1808 D1809 D1810 D1811 D1812	D-5 D-5 C-7 E-6 D-7 F-6 D-7 E-7 B-8 F-5 F-2 B-4 C-2 B-2 B-2 B-2 B-2 D-2

### - C BOARD -



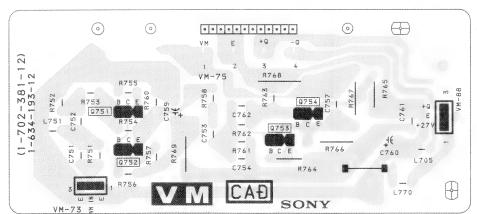
### - D5 BOARD -



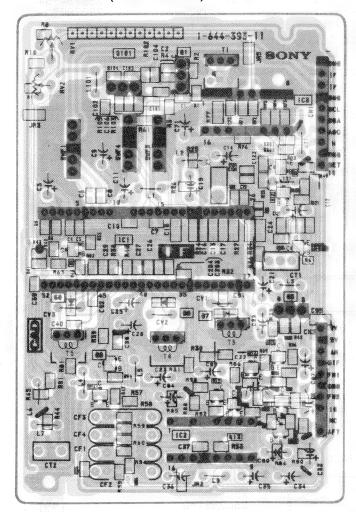
Note:
Pattern from the side which enables seeing

• : Pattern of the rear side.

## - VM BOARD -



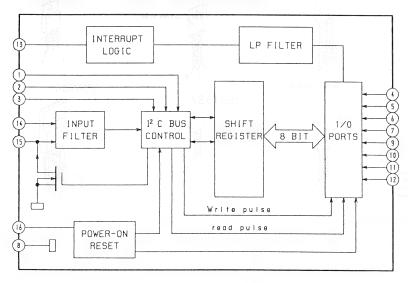
## - IF BOARD - (French Model)

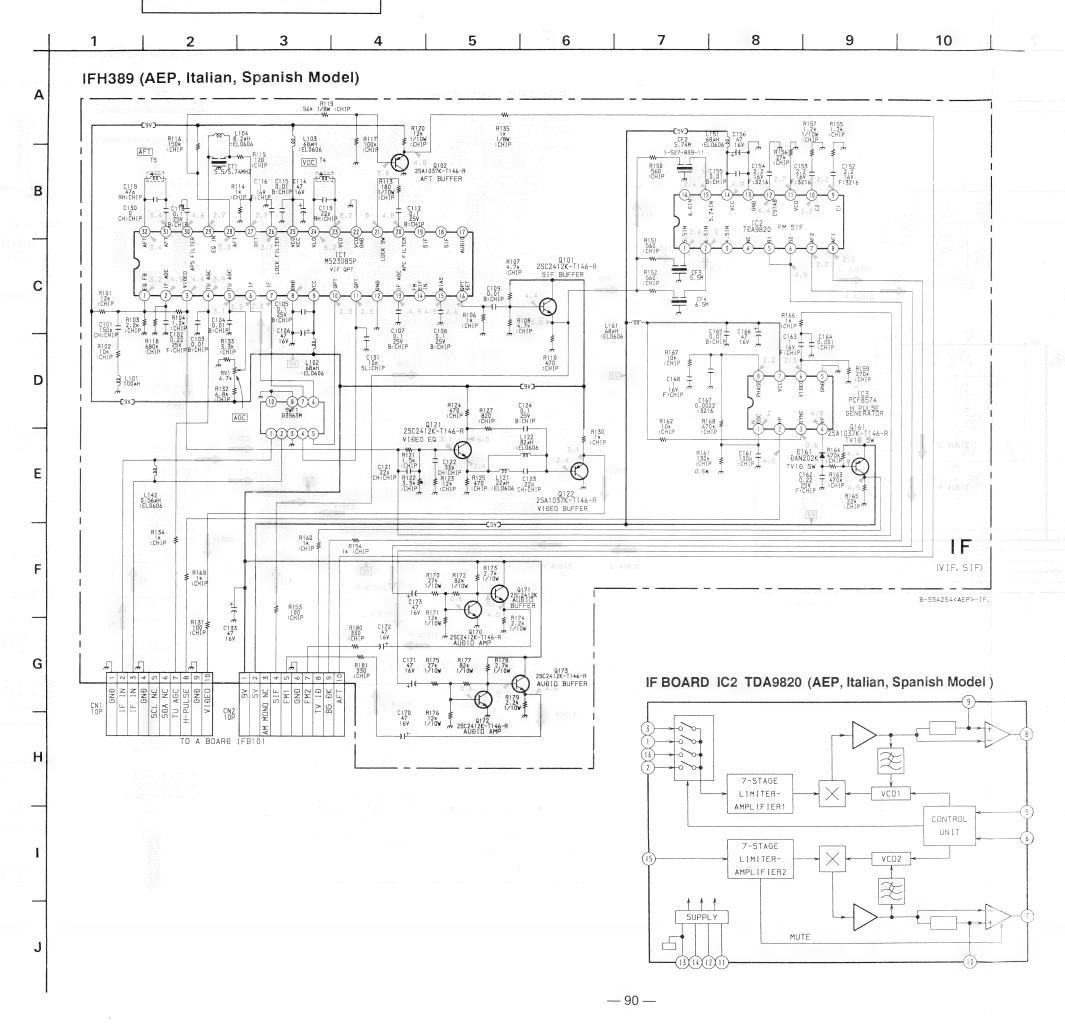


### Note

- Pattern from the side which enables seeing.
- · : Pattern of the rear side.

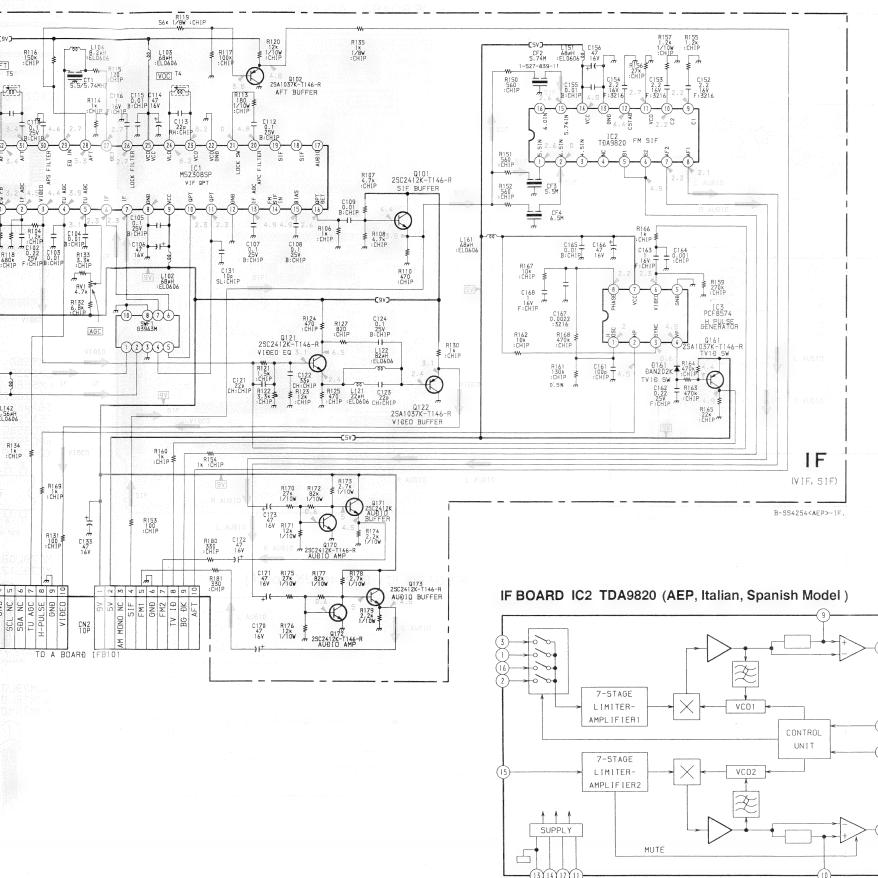
## IF BOARD IC3 PC8574 (French Model)



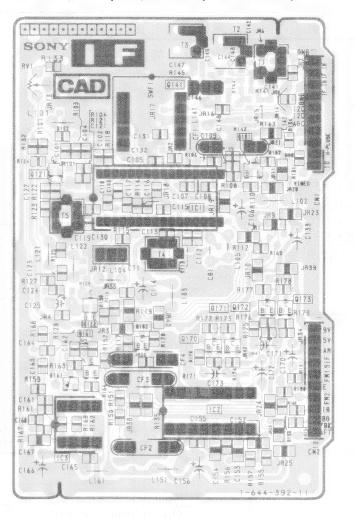


VIF, SIF

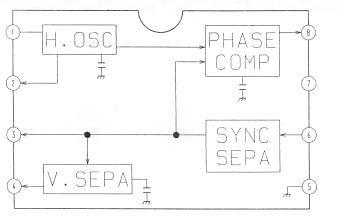
## (AEP, Italian, Spanish Model)



### - IF BOARD - (AEP, Italian, Spanish Model)



## IF BOARD IC3 BA7046 (AEP, Italian, Spanish Model)



C

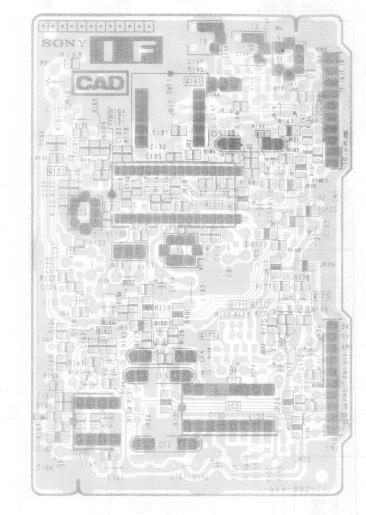
D

G

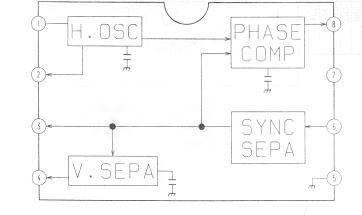
IFH395 (UK Model)







## IF BOARD IC3 BA7046 (UK Model)



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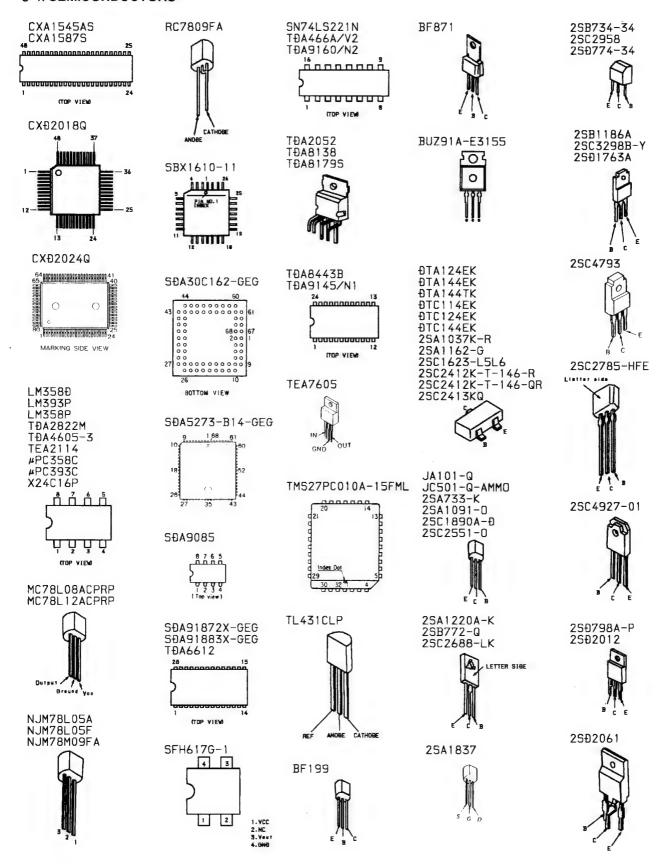
10

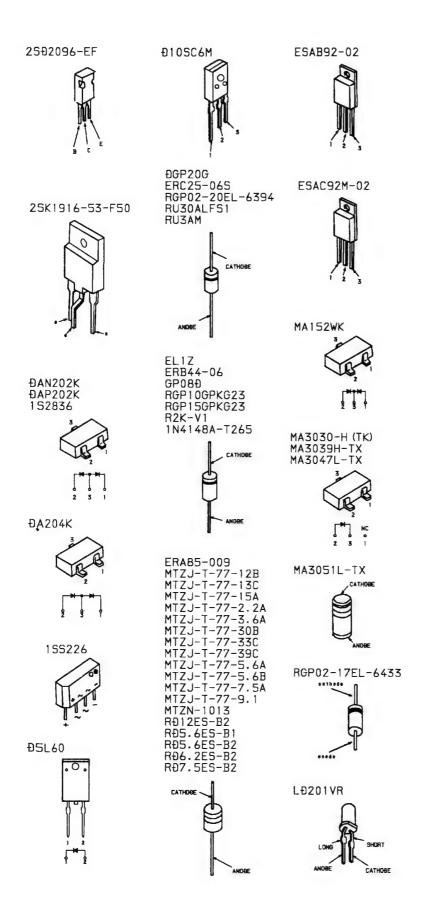
11

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TO A BOARD IFB101

### 5-4. SEMICONDUCTORS





### **SECTION 6**

### **EXPLODED VIEWS**

#### NOTE:

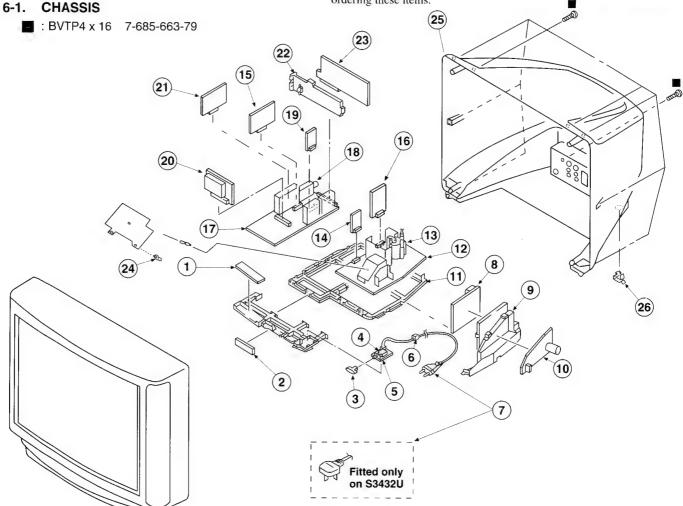
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.

Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked A are critical for safety.

Replace only with the part number specified.

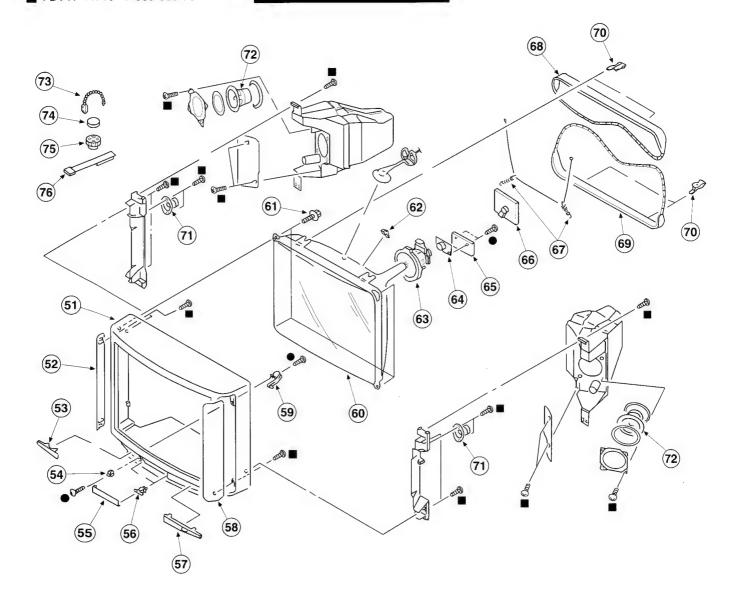
#### 6-1. CHASSIS



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	*1-648-314-11	H1 BOARD		15	*A-1630-233-A	A4 BOARD, COMPLET	E
2	*1-648-475-11	H2 BOARD				(KV-S3431A,S	3431B, S3431D, S343
3	4-202-124-01	BUTTON, POWER		323	*A-1630-236-A	A4 BOARD, COMPLET	E (KV-S3433E)
4	△ 1-571-433-11	SWITCH, PUSH (AC I	OWER)		*A-1630-239-A	A4 BOARD, COMPLET	
5	*1-648-312-12	F1 BOARD	2012077447217777777777777777777777777777	16	*A-1640-114-A	D2 BOARD, COMPLET	E
6		HOLDER, AC CORD		17	*A-1632-205-A	A BOARD, COMPLETE	(KV-S3431A/S3431)
7	/t 1-751-680-11	CORD, POWER (WITH	NOISE FILTER)				S3431
		(KV-83431A/S	431D/S3433B/S3431K)		*A-1632-206-A	A BOARD, COMPLETE	(KV-S3431B)
	∠î\ 1-590-460-11	CORD, POWER (WITH	CONNECTOR)		*A-1632-208-A	A BOARD, COMPLETE	(KV-S3433E)
			(KV-S3431B)		*A-1632-210-A	A BOARD, COMPLETE	(KV-S3432U)
	1-590-762-11	CORD, POWER (WITH	PLUG)	18	1-693-185-11	TUNER, (UV916H) (	KV-S3431A/S3431B/
			(KV-S3432U)				1D/S3433E/S3431K)
8	*A-1640-098-A	D1 BOARD, COMPLET	3		1-693-184-11	TUNER, (U944C) (K	V-S3432U)
9	*4-202-140-03	BRACKET, F		19	*A-1620-049-A	B BOARD, COMPLETE	,
10	*A-1624-022-A	F2 BOARD, COMPLET	E (KV-S3431A/S3431D)	20	*A-1635-020-A	M2 BOARD, COMPLET	E
	*A-1624-040-A	F2 BOARD, COMPLET	E (KV-S3431B/S3433E/	21	*A-1622-006-A	P1 BOARD, COMPLET	E
			S3431K/S3432U)	22	*4-202-135-01	BRACKET, J	
11	*4-202-141-01	BRACKET, MAIN		23	*A-1651-054-A	J BOARD, COMPLETE	
12	*A-1642-102-A	D BOARD, COMPLETE		24	*4-313-732-00	CLIP, HINGE, CIRC	UIT BOARD
13 14	∠î 1-439-524-11	TRANSFORMER ASSY,	PLYBACK (NX-3000A2)	25 <b>26</b>	4-039-608-01	COVER, REAR	.11794@b.
14	*A-1640-113-A	D5 BOARD, COMPLETE	2221 21772222222222222414144157777221944422272222222222222222222222222	26	i 4-038-615-01	HOLDER, AC CORD	

### 6-2. PICTURE TUBE

● : BVTP3 x 12 7-685-648-71 ■ : BVTP4 x 16 7-685-663-79



PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
X-4030-985-1	CABINET ASSY (WITH BEZEL AS	SY)	65	*A-1342-189-A	VM BOARD, COMPLETE	
X-4030-983-1	GRILLE (LEFT) ASSY, SPEAKER		66	*A-1638-033-A	C BOARD, COMPLETE	
4-202-127-01	PLATE, ORNAMENTAL		67	4-369-318-51	SPRING, TENSION	AND THE RESERVE OF THE PARTY OF
	•		68	+ 1-406-701-11	COIL, DEMAGNETIZAT	LON
	·			1-406-702-11	COIL, DEMAGNETIZAT	ION
			70	4-033-744-01	CLIP	PROGRAMMA NATIONAL N. S. S. PROTAD MANAGEMENT AND RESERVOIS CO.
	•		71	1-504-121-21	SPEAKER (SQUAWKER)	(5CM)
		R	72	1-504-145-11	SPEAKER (12CM)	
			73	4-308-870-00	CLIP, LEAD WIRE	
		-247	74	1-452-032-00	MAGNET, DISK; 10MM	Ø
		***************************************		1-452-094-00		
			76	X-4306-312-0	· ·	
		-323)				
	X-4030-985-1 X-4030-983-1 4-202-127-01 4-036-881-01 4-202-125-01 4-202-555-01 4-202-123-01 X-4030-984-1 X-4030-459-1 8-733-731-05 4-036-188-01 3-704-495-01	X-4030-985-1 CABINET ASSY (WITH BEZEL AS X-4030-983-1 GRILLE (LEFT) ASSY, SPEAKER 4-202-127-01 PLATE, ORNAMENTAL 4-036-881-01 LOCK ASSY, DOOR 4-202-125-01 DOOR 4-202-555-01 SHAFT, DOOR 4-202-123-01 WINDOW, ORNAMENTAL X-4030-984-1 GRILLE (RIGHT) ASSY, SPEAKE X-4030-459-1 DAMPER ASSY 8-733-731-05 PICTURE TUBE (M81KVAIOX) SD 4-036-188-01 SCREW (M), PT 3-704-495-01 SPACER, DY 1-451-393-12 DEPLECTION YOKE (Y34EXA)	X-4030-985-1 CABINET ASSY (WITH BEZEL ASSY) X-4030-983-1 GRILLE (LEFT) ASSY, SPEAKER 4-202-127-01 PLATE, ORNAMENTAL 4-036-881-01 LOCK ASSY, DOOR 4-202-125-01 DOOR 4-202-125-01 DOOR 4-202-123-01 WINDOW, ORNAMENTAL X-4030-984-1 GRILLE (RIGHT) ASSY, SPEAKER X-4030-984-1 GRILLE (RIGHT) ASSY, SPEAKER X-4030-459-1 DAMPER ASSY 8-733-731-05 PICTURE TUBE (M91KVA10X) SD-247 4-036-188-01 SCREW (M), PT 3-704-495-01 SPACER, DY	X-4030-985-1 CABINET ASSY (WITH BEZEL ASSY)  X-4030-983-1 GRILLE (LEFT) ASSY, SPEAKER  4-202-127-01 PLATE, ORNAMENTAL  4-036-881-01 LOCK ASSY, DOOR  4-202-125-01 DOOR  4-202-125-01 DOOR  4-202-123-01 WINDOW, ORNAMENTAL  X-4030-984-1 GRILLE (RIGHT) ASSY, SPEAKER  X-4030-984-1 DAMPER ASSY  8-733-731-05 PICTURE TUBE (M81KVA10X) SD-247  4-036-188-01 SCREW (M), PT  3-704-495-01 SPACER, DY  1-451-393-12 DEFLECTION YOKE (Y34EXA)	X-4030-985-1 CABINET ASSY (WITH BEZEL ASSY) X-4030-983-1 GRILLE (LEFT) ASSY, SPEAKER 4-202-127-01 PLATE, ORNAMENTAL 4-036-881-01 LOCK ASSY, DOOR 4-022-125-01 DOOR 4-202-125-01 DOOR 4-202-555-01 SHAFT, DOOR 4-202-123-01 WINDOW, ORNAMENTAL X-4030-984-1 GRILLE (RIGHT) ASSY, SPEAKER X-4030-984-1 GRILLE (RIGHT) ASSY, SPEAKER X-4030-459-1 DAMPER ASSY 8-733-731-05 PICTURE TUBE (M81KVA10X) SD-247 70 T-452-032-00 4-036-188-01 SCREW (M), PT 75 1-452-094-00 3-704-495-01 SPACER, DY 76 X-4306-312-0	X-4030-985-1 CABINET ASSY (WITH BEZEL ASSY)  X-4030-983-1 GRILLE (LEFT) ASSY, SPEAKER  4-202-127-01 PLATE, ORNAMENTAL  4-036-881-01 LOCK ASSY, DOOR  4-202-125-01 DOOR  4-202-123-01 WINDOW, ORNAMENTAL  4-202-555-01 SHAFT, DOOR  4-202-123-01 WINDOW, ORNAMENTAL  X-4030-984-1 GRILLE (RIGHT) ASSY, SPEAKER  X-4030-984-1 GRILLE (RIGHT) ASSY, SPEAKER  X-4030-984-1 DAMPER ASSY  X-4030-984-1 DAMPER ASSY  X-4030-984-1 GRILLE (RIGHT) ASSY, SPEAKER  X-4030-984-0 CLIP, LEAD WIRE  A-369-312-0 MAGNET, DISK; 10MM  4-036-188-01 SCREW (M), PT  75 1-452-094-00 MAGNET, ROTATABLE IN THE ANSWER ASSY, COINTAIN TH

# ELECTRICAL PARTS LIST SECTION 7

The components identified by shading and marked ! are critical for safety.

Replace only with the part number.

Replace only with the part number specified.

• Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

 All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

#### **RESISTORS**

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

**CAPACITORS** 

COILS

MF: mF, PF: mmF

MMH: mH, μH:





				• F	: nonflamma	ble				V	IVI	
REF.NO.	PART NO.	DESCRIPT	TION		REMARK	REF.NO.	PART NO.	DESCRIPTI	ION			REMARK
	*A-1342-189-A	VM BOARD, (	COMPLETE			Q1705	8-729-017-06	TRANSISTOR	2SC4793			
	4-382-854-11	SCREW (M3X10	), P, SW (+)			Q1706 Q1707 Q1708	8-729-119-78 8-729-140-96 8-729-901-59	TRANSISTOR	2SD774-3			
	< CAP.	ACITOR >				Q1709	8-729-255-12			0		
C1701	1-124-119-00		330MF	20%	16V		< RES	ISTOR >				
C1702	1-102-951-00		15PF	5%	50V							
C1703	1-102-115-00		560PF	10%	50V	R1701	1-247-807-31	CARBON	100		1/4W	
C1704	1-161-830-00	CERAMIC	0.0047MF		500V	R1702	1-249-419-11	CARBON	1.5K	5%	1/4W	
C1705	1-124-120-11	ELECT	220MF	20%	16V	R1703	1-247-807-31	CARBON	100	5%	1/4W	
						R1704	1-249-418-11		1.2K		1/4W	
C1706	1-123-935-00	PI.PCT	33MF	20%	160V	R1705	1-247-736-11		56	5%	1/2W	P
C1707	1-124-907-11		10MF	20%	50V	K1/05	1-24/-/30-11	CARBON	20	2%	1/2W	F
				20%		24706	1 040 444 44				4 / 4 = =	_
C1708	1-101-006-00		0.047MF	4.00	50V	R1706	1-249-414-11		560	5%	1/4W	F
C1709	1-110-364-11		0.1MF	10%	200V	R1707	1-249-411-11		330	5%	1/4W	
C1710	1-136-207-11	FILM	0.047MF	10%	250V	R1709	1-249-418-11		1.2K	5%	1/4W	
						R1710	1-249-385-11	CARBON	2.2	5%	1/4W	F
C1711	1-162-318-11	CERAMIC	0.001MF	10%	500V	R1711	1-249-432-11	CARBON	18K	5%	1/4W	
C1712	1-124-799-11	ELECT	2.2MF	20%	160V						_,	
C1713	1-162-318-11		0.001MF	10%	500V	R1712	1-249-435-11	CARBON	33K	5%	1/4W	
C1714	1-136-207-11		0.047MF	10%	250V	R1713	1-249-438-11	CARRON	56K	5%	1/4W	
C1716	1-124-907-11		10MF	20%	50V	R1714	1-249-429-11	CARDON	10K	5%	1/4W	
01/10	1 124 707 11	EDEC1	TOM	200	301	R1715	1-216-476-11		180	5%	- '	
C1718	1-124-120-11	ביו בייה	220MF	20%	16V	R1716	1-249-417-11					F
C1719	1-124-907-11		10MF	20%	50V	KI/IO	1-249-41/-11	CARBUN	1K	5%	1/4W	F
CITI	1-124-301-11	PUBCI	TOMP	20%	201	21717	1 040 400 11	CARROW.	4.00		4 / /	
		ATTIOTION .				R1717	1-249-432-11		18K	5%	1/4W	
	< CON	NECTOR >				R1718	1-249-412-11	CARBON	390	5%	1/4W	
env4.04.0						R1719	1-249-419-11		1.5K		1/4W	
CN1819	*1-568-882-51	PIN, CONNEC	CTOR 7P			R1720	1-249-441-11		100K	5%	1/4W	
CN1830	<pre></pre>	PIN, CONNEC	CTOR 3P			R1721	1-249-414-11	CARBON	560	5%	1/4W	
	< DIO	DE >				R1722	1-249-385-11	CARRON	2.2	5%	1/4W	F
						R1723	1-249-429-11		10K	5%	1/4W	r
D1701	8-719-901-33	DIODE 19913	13			R1724	1-249-436-11		39K	5%	1/4W	
D1702	8-719-901-33	DIODE 19913	13			R1725	1-249-416-11		820	5%	1/4W	
D1703	8-719-901-33	DIODE 1881	12			R1725	1-249-416-11			5%		
D1704	8-719-982-37					K1/20	1-249-414-11	CARBON	560	2%	1/4W	
D1705	8-719-982-37					D1707	1 040 400 11	CIPPOV.		F0.	1 /4	_
DITOS	0-119-902-31	DIODE MIZO.	-390			R1727	1-249-402-11		56	5%	1/4W	
D170C	0 =40 004 00					R1729	1-216-451-11	METAL OXIDE	120	5%	2W	F
D1706	8-719-901-33					R1731	1-249-420-11		1.8K		1/4W	
D1707	8-719-901-33	DIODE 1SS13	33			R1732	1-249-426-11		5.6K		1/4W	
						R1734	1-249-419-11	CARBON	1.5K	5%	1/4W	
	< COI	L >				******	******	********	******	****	*****	****
L1702	1-408-418-00	TNDUCTOR	56UH									
	7 400 410 00	INDUCTOR	30011				*A-1620-049-A	B BOARD, COM	PLETE			
	< TRA	NSISTOR >						*******	****			
Q1701 Q1702	8-729-119-78						< CAP.	ACITOR >				
	8-729-173-38										4.00	
Q1703	8-729-017-05					C1301	1-164-232-11				10%	50V
Q1704	8-729-119-78	TRANSISTOR	2SC2785-HFE			C1302	1-126-101-11	ELECT	100MF		20%	16V





REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N			REMARK
C1303 C1304 C1305		CERAMIC CHIP 0.01MF CERAMIC CHIP 33PF	10% 10% 5%	50V 50V 50V	Q1306 Q1307 Q1308 Q1310	8-729-216-22 8-729-216-22	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A1162-G A1162-G			
C1306 C1307		CERAMIC CHIP 0.01MF	5% 10%	50V 50V		< RES	ISTOR >				
C1308 C1309 C1310	1-163-101-00 1-163-101-00 1-126-101-11		5% 5% 20%	50V 50V 16V	R1301 R1302	1-216-053-00 1-216-059-00	METAL GLAZE	1.5K 2.7K	5%	1/10W 1/10W	
C1311 C1312		CERAMIC CHIP 470PF	5%	25V 50V	R1303 R1304 R1305	1-216-043-00 1-216-043-00 1-216-067-00	METAL GLAZE	560	5%	1/10W 1/10W 1/10W	
C1313 C1314 C1315	1-104-792-51 1-126-101-11 1-164-232-11		20% 20% 10%	16V 16V 50V	R1306 R1307 R1308	1-216-073-00 1-216-069-00 1-216-069-00	METAL GLAZE	10K 6.8K 6.8K	5%	1/10W 1/10W 1/10W	
C1316 C1317		CERAMIC CHIP 0.01MF	20% 10%	16V 50V	R1309 R1310	1-216-055-00 1-216-295-91	METAL GLAZE	1.8K	5%	1/10W 1/10W	
C1318 C1319 C1320	1-124-477-11 1-164-232-11 1-163-141-00	CERAMIC CHIP 0.01MF	20% 10% 5%	16V 50V 50V	R1311 R1312	1-216-073-00 1-216-057-00		10K 2.2K		1/10W 1/10W	
C1321 C1322	1-164-232-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	10% 10%	50V 50V	R1313 R1314 R1315	1-216-089-91 1-216-065-00 1-216-049-00	METAL GLAZE METAL GLAZE	4.7K	5%	1/10W 1/10W 1/10W	
C1323 C1324	1-164-232-11 1-126-101-11	CERAMIC CHIP 0.01MF ELECT 100MF	10% 20%	50V 16V	R1316	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
C1325 C1326	1-164-232-11 1-164-232-11	CERAMIC CHIP 0.01MF	10% 10%	50V 50V	R1317 R1318 R1319	1-216-083-00 1-216-051-00 1-216-043-00	METAL GLAZE METAL GLAZE	1.2K 560	5% 5%	1/10W 1/10W 1/10W	
C1327 C1328 C1329	1-164-232-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.1MF	10% 10%	50V 50V 25V	R1320 R1321	1-216-067-00	METAL GLAZE	5.6K 1K	5% 5%	1/10W	
C1330 C1331	1-163-038-00		10%	25V 50V	R1322 R1324 R1325	1-216-025-00 1-216-055-00 1-216-043-00	METAL GLAZE	1.8K		1/10W 1/10W 1/10W	
C1332 C1333	1-164-232-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	10% 10%	50V 50V	R1326	1-216-067-00	METAL GLAZE	5.6K		1/10W	
		NNECTOR >	40_		R1330 R1331	1-216-067-00 1-216-049-00	METAL GLAZE METAL GLAZE	5.6K 1K	5% 5%	1/10W 1/10W	
CN0302		CONNECTOR, BOARD TO BOA	KD TUP		R1332 R1333	1-216-653-11	METAL CHIP	1.2K 4.3K			
D1301		DIODE DAN202K			R1334 R1335 R1336	1-216-635-11 1-216-637-11 1-216-657-11	METAL CHIP		0.50%	1/10W 1/10W	
		LTER >			R1337 R1338	1-216-657-11 1-216-657-11	METAL CHIP	3.3K 1.8K	0.50%	1/10W	
FL1301 FL1302 FL1303 FL1304	1-239-550-41 1-239-550-41	FILTER, LOW PASS FILTER, LOW PASS FILTER, LOW PASS ENCAPSULATED COMPONENT			R1339 R1342 R1343	1-216-295-91	METAL GLAZE METAL GLAZE METAL GLAZE	0	5% 5% 5%	1/10W 1/10W 1/10W	
	< IC	>			*****	******	******	******	****	*****	*****
IC1301		IC CXD2024Q-TL				*A-1622-006-A	P1 BOARD, COM				
	< CO:					< CAL	PACITOR >				
L1301 L1302 L1303 L1304	1-408-405-00 1-408-403-00 1-408-405-00 1-408-405-00	INDUCTOR 3.3UH INDUCTOR 4.7UH			C1401 C1402 C1403 C1404	1-163-038-00 1-163-017-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 0.0047M	_	10% 10%	25V 25V 50V 25V
	< TR	ANSISTOR >			C1405	1-163-097-00	CERAMIC CHIP	15PF	!	5%	50V
Q1301 Q1302 Q1303 Q1304 Q1305	8-729-216-22 8-729-216-22 8-729-920-74	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR			C1406 C1407 C1408 C1409 C1410	1-163-038-00 1-164-182-11 1-124-903-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	0.1MF 0.0033M 1MF	F	5% 10% 20%	50V 25V 50V 50V 25V



REF.NO	*	DESCRIPTIO	_		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N	REMARK
C1411 C1412	1-164-005-11 1-163-038-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.47MF		25V 25V		< COM	NECTOR >		
C1414	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	CN1514	*1-568-879-11	PIN. CONNECTO	OR 4P	
C1416	1-163-129-00	CERAMIC CHIP	330PF	5%	50V		*1-564-516-11			
C1417	1-163-129-00	CERAMIC CHIP	330PF	5%	50V		*1-568-879-11			
•===									DARD TO BOARD 10P	
C1419	1-164-005-11	CERAMIC CHIP	0.47MF		25V				10 501215 201	
C1420	1-163-038-00	CERAMIC CHIP	0.1MF		25V		< DIC	DE >		
C1421		CERAMIC CHIP			25V					
C1422		CERAMIC CHIP			25V	D1401		DIODE MA30511		
C1423	1-163-038-00	CERAMIC CHIP	0.1MF		25V	D1403		DIODE DAN202F		
G1 40 4	1 162 202 11	ATT. 1470 CHTS	0.004	4.00	F 0	D1404		DIODE DA204K		
C1424		CERAMIC CHIP			50V	D1405	8-719-914-42	DIODE DA204K		
C1425 C1426		CERAMIC CHIP		10% 5%	50V 50V		. 13.7.7	men .		
C1427	1-124-916-11		200FF 22MF	20%	50V		< F11	TER >		
C1428		CERAMIC CHIP		200	25V	FL1403	1-236-071-11	ENCAPSULATED	COMPONENT	
01100					251	FL1404		ENCAPSULATED		
C1430	1-163-038-00	CERAMIC CHIP	0.1MF		25V	FL1405		ENCAPSULATED		
C1431	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	FL1406		ENCAPSULATED		
C1432	1-164-004-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	10%	25V	FL1407		ENCAPSULATED		
C1433		CERAMIC CHIP		10%	25V					
C1434	1-163-038-00	CERAMIC CHIP	0.1MF		25V	FL1408	1-236-071-11	ENCAPSULATED	COMPONENT	
C1435	1-163-038-00	CERAMIC CHIP	0.1MF		25V		< IC	>		
C1437	1-164-343-11	CERAMIC CHIP	0.056MF	10%	25V					
C1438		CERAMIC CHIP		10%	50V	IC1401		IC TDA9160/N2		
C1439 C1440		CERAMIC CHIP		5% 5%	50V 50V	IC1402 IC1403		IC TDA4661T/V IC SDA9187-2X		
01110	1 103 243 11	CDIMMIC CHIL	JULI	2.0	J0 V	IC1404		IC SDA9188-3X		
C1441	1-164-005-11	CERAMIC CHIP	0.47MF		25V	IC1405		IC SDA9086-5	GEG	
C1442	1-164-005-11	CERAMIC CHIP	0.47MF		25V			20 52115000 5		
C1443	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	IC1406	8-759-183-36	IC TDA8443B		
C1444	T-104-002-TT	CERMIT CUIP	0.4/11		25V	IC1410		IC MC78L08ACP	RP	
C1445	1-164-005-11	CERAMIC CHIP	0.47MF		25V	IC1411	8-759-708-05	IC NJM78L05A		
C1446	1-164-005-11	CERAMIC CHIP	0.47MF		25V		< COI	T <sub>1</sub> >		
C1447		CERAMIC CHIP			25V		( 001	_ ,		
C1448		CERAMIC CHIP			25V	L1401	1-408-418-00	INDUCTOR	56UH	
C1449		CERAMIC CHIP		5%	50V	L1405	1-408-407-00	INDUCTOR	6.8UH	
C1450	1-164-005-11	CERAMIC CHIP	0.47MF		25V	L1406	1-408-407-00	INDUCTOR	6.8UH	
C1451	1-163-007-11	CERAMIC CHIP	680PF	10%	50V		и прам	SISTOR >		
C1452		CERAMIC CHIP		10.0	25V		( INAM	DIDIOK >		
C1453		CERAMIC CHIP			25V	01401	8-729-920-74	TRANSISTOR 2S	C2412K-OR	
C1454		CERAMIC CHIP			25V	Q1402	8-729-920-74	TRANSISTOR 2S	C2412K-OR	
C1455	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	Q1403	8-729-920-74	TRANSISTOR 2S	C2412K-QR	
						Q1404	8-729-216-22	TRANSISTOR 25	A1162-G	
C1456		CERAMIC CHIP		5%	50V	Q1405	8-729-920-74	TRANSISTOR 2S	C2412K-QR	
C1457 C1458		CERAMIC CHIP			25V	01406	0 500 000 54		-0.110	
C1459		CERAMIC CHIP			16V 16V	Q1406 Q1407	8-729-920-74	TRANSISTOR 2S	02412K-QR	
C1460		CERAMIC CHIP			25V	Q1407 Q1408	8-729-216-22	TRANSISTOR 2S.	M1162-C	
•===	1 103 030 00	CDIMENTO CHILI	O. IM		234	Q1409	8-729-216-22	TRANSISTOR 2S.	11162-G 11162-G	
C1461	1-164-005-11	CERAMIC CHIP	0.47MF		25V	Q1413	8-729-216-22			
C1462		CERAMIC CHIP	0.47MF		25V	-				
C1463	1-126-101-11		100MF	20%	16V	Q1414		TRANSISTOR DT		
C1464	1-126-101-11		100MF	20%	16V	Q1416		TRANSISTOR 25		
C1465	1-126-101-11	ELECT	100MF	20%	16V	Q1417		TRANSISTOR DT		
C1466	1-126-101-11	pt.pcm	100MF	20%	16V	Q1418		TRANSISTOR DT		
C1467	1-126-101-11		100MF	20%	16V	Q1419	0-149-900-53	TRANSISTOR DT	7114EV	
C1468		CERAMIC CHIP		20.0	16V	Q1421	8-729-920-74	TRANSISTOR 250	22412K-OR	
C1469		CERAMIC CHIP			16V	Q1422		TRANSISTOR 250		
C1471		CERAMIC CHIP		10%	25V	Q1425		TRANSISTOR 250		
						Q1426		TRANSISTOR DTO		
C1472		CERAMIC CHIP		10%	25V	Q1430		TRANSISTOR DT		
C1473 C1481		CERAMIC CHIP		10%	25V	01/01	0 500 004 01	mbanasana a	444	
C1491		CERAMIC CHIP		5%	25V 50V	Q1431	0-729-901-04	TRANSISTOR DTA	1114EK	
	± 103-231-11	CENTRIC CHIP	11001	J-0	304					
						1				







REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
JR1401	< RES	SISTOR >	0 59	6 1/10W	R1484 R1485 R1486	1-216-081-00 1-216-041-00 1-216-033-00	METAL GLAZE	22K 5% 470 5% 220 5%	1/10 1/10 1/10	W
R1401 R1402 R1403 R1404 R1405	1-216-097-00 1-216-073-00 1-216-025-00 1-216-025-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 59 10K 59 100 59 100 59 1K 59	6 1/10W 6 1/10W 6 1/10W 6 1/10W	R1487 R1493 R1494 R1495 R1496	1-216-033-00 1-216-075-00 1-216-025-00 1-216-053-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 5% 12K 5% 100 5% 1.5K 5% 4.7K 5%	1/10 1/10 1/10 1/10 1/10	W W W
R1406 R1407 R1408 R1410 R1411	1-216-051-00 1-216-057-00 1-216-041-00 1-216-029-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE	1.2K 59 2.2K 59 470 59 150 59 470 59	6 1/10W 6 1/10W 6 1/10W	R1497 R1498 R1499	1-216-053-00 1-216-053-00 1-216-057-00	METAL GLAZE	1.5K 5% 1.5K 5% 2.2K 5%	1/10 1/10 1/10	W
R1412 R1413 R1414 R1415	1-216-041-00 1-216-041-00 1-216-045-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 59 470 59 680 59 680 59	6 1/10W 6 1/10W 6 1/10W	X1401 X1402	1-567-504-11	OSCILLATOR, CR	YSTAL	*****	*****
R1416 R1417 R1418	1-216-049-00 1-216-033-00 1-216-025-00		1K 59 220 59 100 59	6 1/10W		*1-648-312-12	F1 BOARD			
R1419 R1421 R1422	1-216-027-00 1-216-033-00 1-216-023-00	METAL GLAZE METAL GLAZE	120 59 220 59 82 59	6 1/10W 6 1/10W	CN0003	* *1-580-844-11	NECTOR >  PIN, CONNECTOR	(POWER)		
R1424 R1425 R1426 R1427 R1429	1-216-041-00 1-216-041-00 1-216-041-00 1-216-041-00 1-216-091-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 59 470 59 470 59 470 59 56K 59	6 1/10W 6 1/10W 6 1/10W	Part of the content o	< FUS	PIN, CONNECTOR  E >  FUSE (H.B.C.)  HOLDER, FUSE (	5A/250V		
R1430 R1431 R1434 R1435 R1436	1-216-069-00 1-216-073-00 1-216-043-00 1-216-073-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	6.8K 55 10K 55 560 55 10K 55	6 1/10W 6 1/10W 6 1/10W 6 1/10W		< SWI 1. 1-571-433-11	TCH >	AC POWER)		
R1437 R1438 R1439 R1441 R1442	1-216-031-00 1-216-045-00 1-216-057-00 1-216-053-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	180 59 680 59 2.2K 59 1.5K 59	1/10W 1/10W 1/10W 1/10W			F2 BOARD, COMP *************** F2 BOARD, COMP ***********	**** LETE (KV-	-S3431B/	S3433E/
R1443 R1444 R1445 R1446 R1449	1-216-053-00 1-216-041-00 1-216-083-00 1-216-079-00 1-216-033-00	METAL GLAZE METAL GLAZE	1.5K 59 470 59 27K 59 18K 59 220 59	% 1/10W % 1/10W % 1/10W	C662	<pre>CAP 1-136-519-12 1-136-518-12 1-164-246-61 1-124-920-11 1-126-337-11</pre>	FILM D CERAMIC D ELECT 3	.47MF .33MF .0022MF 30MF 2MF	20% 20% 20% 20% 20% 20%	300V 300V 400V 50V 50V
R1450 R1453 R1454 R1455 R1456	1-216-033-00 1-216-025-00 1-216-025-00 1-216-081-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 59 100 59 100 59 22K 59 22K 59	6 1/10W 6 1/10W 6 1/10W	C672	1-161-964-91 1-161-964-91 1-125-555-11	CERAMIC 0	.0047MF .0047MF .0047MF	20%	250V 250V 400V
R1457 R1458 R1462 R1463 R1464	1-216-057-00 1-216-053-00 1-216-073-00 1-216-049-00 1-216-093-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 55 1.5K 55 10K 55 1K 55 68K 55	8 1/10W 8 1/10W 8 1/10W	CN0005 CN0006 CN0007 CN0924 CN0925	1-508-765-00 1-508-765-00 1-508-786-00 *1-568-878-51	PIN, CONNECTOR PIN, CONNECTOR PIN, CONNECTOR PIN, CONNECTOR PIN, CONNECTOR	(5MM PIT (5MM PIT 3P	CH) 3P CH) 2P	
R1465 R1466 R1468 R1469 R1471	1-216-093-00 1-216-295-91 1-216-049-00 1-216-049-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE	68K 55 0 55 1K 55 1K 55 330 55	% 1/10W % 1/10W % 1/10W	CN0929	1-508-784-00	PIN, CONNECTOR PIN, CONNECTOR	(5MM PIT	CH) 1P	( The control of the
R1481 R1483	1-216-089-91 1-216-079-00		47K 59		D661 D663 D664	8-719-510-53	DIODE 1SS133 DIODE D4SB60L DIODE RD5.6ESB	2		



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
LF662	1-15424-436-11	ANSFORMER >  TRANSFORMER, LINE    TRANSFORMER, LINE    (KY-S3431A/S)	'ILTER	C1117 C1118 C1119 C1120	1-163-113-00	CERAMIC CHIP 0.22MF CERAMIC CHIP 68PF CERAMIC CHIP 330PF CERAMIC CHIP 330PF	5% 5% 5%	25V 50V 50V 50V
Q661	< TR	ANSISTOR > TRANSISTOR 2SC2412F		C1121 C1122 C1123 C1124 C1125	1-163-113-00 1-163-081-00 1-106-228-00 1-124-477-11 1-124-477-11	ELECT 47MF	5% 10% 20% 20%	50V 25V 100V 16V 16V
R664	*. 1-244-945-91 †. 1-205-998-11 †. 1-218-265-11 1-249-405-11 1-249-430-11	WIREWOUND 1 METAL 8.2M CARBON 100	5% 1/2W 5% 10W 5% 1W 5% 1/4W F 5% 1/4W	C1126 C1127 C1128 C1129 C1130	1-163-077-00 1-163-038-11 1-124-477-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 47MF CERAMIC CHIP 0.1MF	10% 20% 10%	25V 25V 16V 25V 50V
R668 R669	1-249-436-11 <b>1. 1-202-968-11</b> <b>1. 1-205-998-11</b> 1-249-417-11	CARBON 39K WIREWOUND 1.2 WIREWOUND 1	5% 1/4W 5% 10W 5% 10W 5% 1/4W P	C1131 C1132 C1133 C1134 C1135	1-163-038-11 1-124-907-11 1-163-009-11 1-163-038-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.1MF	20% 10%	50V 25V 50V 50V 25V
21661	1 4-515-720-31	LAY >  RELAY  BRMISTOR >		C1136 C1137 C1138 C1139 C1140		CERAMIC CHIP 33PF	5% 5% 5% 5%	50V 25V 50V 50V 50V
	******	THERMISTOR, POSITIV	(KV-S3431A/S3431B/	C1141 C1142 C1143 C1144 C1145	1-163-205-00 1-163-057-00 1-163-003-11 1-163-121-00 1-163-121-00	CERAMIC CHIP 150PF	10% 10% 5% 5%	50V 50V 50V 50V 50V
		A4 BOARD, COMPLETE	(KV-S3433E)	C1146 C1147 C1148 C1149 C1150	1-124-477-11 1-164-161-11 1-124-477-11	CERAMIC CHIP 0.0022MF	20% 10% 20%	25V 16V 50V 16V 25V
	< FII	TER >		C1151 C1152	1-163-038-11 1-124-477-11	CERAMIC CHIP 0.1MF ELECT 47MF	20%	25V 16V
CF1101 CF1102 BP1101	1-404-134-00 1-236-238-11	TRAP, CERAMIC (6.0M TRAP, CERAMIC (5.5M FILTER, BANS PASS (	HZ) (KV-S3433E) KV-S3432U)	C1153 C1154 C1155	1-163-038-11 1-124-477-11	CERAMIC CHIP 4PF CERAMIC CHIP 0.1MF ELECT 47MF	0.25PF 20%	7 50V 25V 16V
		FILTER, BAND PASS ( PACITOR >	KV-83433E)	C1156 C1157 C1158 C1159	1-163-009-11 1-163-038-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 10% 10%	50V 50V 25V 25V
	C1101 - C1159	(KV-S3433E/S3432U) O	NLY >			one of the original o	(KV-S34	
C1101 C1102 C1103 C1104 C1105	1-163-077-00		20% 16V 20% 16V 50V 10% 25V 10% 16V	C1203 C1204 C1205 C1206 C1207	1-164-004-11		20% 20% 5% 10% 10%	50V 50V 50V 50V 50V
C1106 C1107 C1108 C1109 C1110	1-163-009-11 1-163-059-00 1-163-033-00	CERAMIC CHIP 180PF CERAMIC CHIP 0.001M CERAMIC CHIP 0.01MF CERAMIC CHIP 0.022M CERAMIC CHIP 0.33MF	50V 50V	C1208 C1209 C1210 C1211 C1212	1-124-927-11 1-124-907-11 1-163-101-00		10% 20% 20% 5% 5%	50V 50V 50V 50V 50V
C1111 C1112 C1113 C1114 C1115	1-164-161-11 1-124-477-11	CERAMIC CHIP 0.1MF		C1213 C1214 C1215 C1216 C1217		ELECT 4.7MF	10% 10% 20% 20% 20%	25V 50V 50V 50V 50V
C1116	1-106-228-00	MYLAR 0.022MI	10% 100V	C1218	1-124-927-11	ELECT 4.7MF	20%	50 <b>V</b>



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REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N REMARK
C1219 C1220 C1221 C1222	1-124-927-11 1-124-927-11 1-124-927-11 1-163-014-00	ELECT 4.7MF	20% 20% 20% 10%	50V 50V 50V 50V	771101	< (KV-S3433	RITE BEAD >	
C1223 C1224 C1225 C1226 C1227	1-163-014-00 1-124-927-11 1-124-927-11 1-124-910-11 1-163-019-00	ELECT 4.7MF	10% 20% 20% 20% 10%	50V 50V 50V 50V 50V	FB1101 FB1102 FB1103 FB1104 FB1105	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41	FERRITE BEAD FERRITE BEAD FERRITE BEAD FERRITE BEAD	INDUCTOR 0.45UH INDUCTOR 0.45UH INDUCTOR 0.45UH INDUCTOR 0.45UH INDUCTOR 0.45UH
C1228	1-163-019-00	CERAMIC CHIP 0.0068MF	10%	50V		< IC	>	
C1230 C1231 C1232 C1233	1-126-101-11 1-164-232-11 1-126-101-11 1-164-505-11	ELECT 100MF CERAMIC CHIP 0.01MF ELECT 100MF CERAMIC CHIP 2.2MF	20% 10% 20%	16V 50V 16V 16V	IC1101 IC1102 IC1201 IC1202 IC1203		IC SAA7282-ZI IC UPC4558C IC UPC4558C	KV-S3433E/S3432U) P (KV-S3433E/S3432U)
C1234 C1235 C1236 C1237 C1245	1-163-009-11 1-163-009-11 1-124-927-11 1-124-927-11 1-163-131-00	CERAMIC CHIP 0.001MF ELECT 4.7MF ELECT 4.7MF	10% 10% 20% 20% 10%	50V 50V 50V 50V 50V	IC1204 IC1251	8-759-503-59 8-759-257-64 < C03	IC TDA7317	
C1246 C1247 C1251 C1252 C1253	1-163-131-00 1-163-131-00 1-163-009-11 1-163-010-11 1-163-014-00	CERAMIC CHIP 390PF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.0012MF	10% 10% 10% 10% 10%	50V 50V 50V 50V 50V	L1101 L1102 L1103 L1104 L1105	1-408-405-00 1-408-405-00 1-410-119-11 1-410-119-11 1-408-411-00	INDUCTOR INDUCTOR	4.7UH (KV-S3433E/S3432U) 4.7UH (KV-S3433E/S3432U) 1MMH (KV-S3433E/S3432U) 1MMH (KV-S3433E/S3432U) 15UH (KV-S3432U)
C1254 C1255 C1256 C1257	1-163-014-00 1-164-232-11 1-163-022-00 1-163-986-00	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.012MF CERAMIC CHIP 0.027MF	10% 10% 10% 10%	50V 50V 50V 25V	L1201 L1202 L1251	1-408-421-00 1-408-421-00 1-408-421-00		100UH 100UH 100UH
C1258	1-163-986-00	CERAMIC CHIP 0.027MF	10%	25V		< TRA	MSISTOR >	
C1259 C1260 C1261	1-164-348-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.12MF CERAMIC CHIP 0.001MF	10% 10% 10%	25V 25V 50V	Q1101 01102	8-729-920-74 8-729-920-74		SC2412K-QR (KV-S3433E/ S3432U) SC2412K-QR (KV-S3433E/
C1262 C1263	1-163-010-11 1-163-014-00	CERAMIC CHIP 0.0012MF	10% 10%	50 <b>V</b> 50 <b>V</b>	Q1103	8-729-920-74		S3432U) SC2412K-QR (KV-S3433E/ S3432U)
C1264 C1265 C1266	1-163-014-00 1-164-232-11 1-163-022-00	CERAMIC CHIP 0.01MF	10% 10% 10%	50V 50V 50V	Q1104	8-729-920-74	TRANSISTOR 25	SC2412K-QR (KV-S3433E/ S3432U)
C1267 C1268	1-163-986-00 1-163-986-00		10% 10%	25V 25V	Q1105	8-729-920-74	TRANSISTOR 25	SC2412K-QR (KV-S3433E/ S3432U)
C1269 C1270	1-164-004-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.12MF	10%	25V 25V	Q1106	8-729-920-74	TRANSISTOR 28	SC2412K-QR (KV-S3433E/ S3432U)
C1271 C1272	1-124-916-11 1-124-910-11	ELECT 22MF ELECT 47MF	20% 20%	50V 50V	Q1107			SC2412K-QR (KV-S3433E/ S3432U)
C1273	1-124-907-11	ELECT 10MF	20%	50V	Q1108			SC2412K-QR (KV-S3433E/ S3432U)
CN0201		NNECTOR >  CONNECTOR, BOARD TO BO	מחכ חמגו		Q1201 Q1202		TRANSISTOR 28	•
CN0202 CN0203	*1-564-508-11	PLUG, CONNECTOR 5P PLUG, CONNECTOR 6P	AND ZUI		QIZUZ		SISTOR >	SCEETEN WW
	< DI	ODE >				R1101 - R1154	(KV-S3433E/S34	432U) ONLY >
D1101	8-719-914-44	DIODE DAP202K (KV-S343	3E/S343	2U)	JR1101	1-216-296-00	METAL GLAZE	0 5% 1/8W
D1102 D1103 D1201	8-719-027-70 8-719-820-71	DIODE 1SV217-TPH3 (KV- DIODE 1SV214 (KV-S3433 DIODE DAN202K	S3433E/	S3432U)	JR1102		METAL GLAZE	(KV-S3433E) 0 5% 1/8W (KV-S3433E/S3432U)
D1201		DIODE DA204K			JR1103	1-216-296-00	METAL GLAZE	0 5% 1/8W (KV-S3433E/S3432U)
D1203	8-719-914-42	DIODE DA204K			JR1104	1-216-295-00	METAL GLAZE	0 5% 1/10W
					JR1201	1-216-295-00	METAL GLAZE	(KV-S3433E/S3432U) 0 5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	N		REMARK	REF.NO.	PART NO.	DESCRIPTION	ON		REM	IARK
R1101 R1102 R1103 R1104 R1105	1-216-188-00 1-216-049-00 1-216-049-00 1-216-041-00 1-216-005-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	390 1K 1K 470 15	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W	R1207 R1208 R1209 R1210 R1211	1-216-073-00 1-216-083-00 1-216-083-00 1-216-073-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 27K 27K 10K 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1106 R1107 R1108 R1109 R1110	1-216-185-11 1-216-042-00 1-216-063-00 1-216-202-00 1-216-196-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	300 510 3.9K 1.5K 820	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/8W 1/8W	R1212 R1213 R1214 R1215 R1216	1-216-073-00 1-216-073-00 1-216-073-00 1-216-089-91 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 10K 47K 470K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1111 R1112 R1113 R1114 R1115	1-216-041-00 1-216-051-00 1-216-001-00 1-216-105-00 1-216-121-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 1.2K 10 220K 1M	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1217 R1218 R1219 R1220 R1221	1-216-073-00 1-216-121-00 1-216-113-00 1-216-113-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 1M 470K 470K 470K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1116 R1117 R1118 R1119 R1120	1-216-049-00 1-216-097-00 1-216-097-00 1-216-073-00 1-216-232-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 100K 100K 10K 27K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W	R1222 R1223 R1224 R1225 R1226	1-216-073-00 1-216-073-00 1-216-073-00 1-216-113-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 10K 470K 470K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1121 R1122 R1123 R1124 R1125	1-216-081-00 1-216-158-00 1-216-158-00 1-216-089-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 22 22 47K 100K	5% 5% 5% 5%	1/10W 1/8W 1/8W 1/10W 1/10W	R1227 R1228 R1229 R1230 R1231	1-216-113-00 1-216-073-00 1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 10K 10K 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1126 R1127 R1128 R1129 R1130	1-216-218-00 1-216-097-00 1-216-089-00 1-216-089-00 1-216-246-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	6.8K 100K 47K 47K 100K	5% 5%	1/8W 1/10W 1/10W 1/10W 1/8W	R1232 R1233 R1234 R1235 R1236	1-216-073-00 1-216-049-00 1-216-049-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 1K 1K 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1131 R1132 R1133 R1134 R1135	1-216-218-00 1-216-097-00 1-216-089-00 1-216-212-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	6.8K 100K 47K 3.9K 22K	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/8W 1/10W	R1237 R1238 R1240 R1241 R1242	1-216-049-00 1-216-045-00 1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 680 100 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1136 R1137 R1138 R1139 R1140	1-216-081-00 1-216-095-00 1-216-097-00 1-216-005-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 82K 100K 15 3.3K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1245 R1246 R1247 R1251 R1252	1-216-073-00 1-216-073-00 1-216-073-00 1-216-089-91 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 10K 47K 4.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1141 R1142 R1143 R1144 R1145	1-216-061-00 1-216-033-00 1-216-049-00 1-216-049-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 220 1K 1K 1O	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1253 R1254 R1255 R1256 R1257	1-216-089-91 1-216-065-00 1-216-089-91 1-216-065-00 1-216-089-91	METAL GLAZE METAL GLAZE METAL GLAZE	47K 4.7K 47K 4.7K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1146 R1147 R1148 R1149 R1150	1-216-049-00 1-216-045-00 1-216-049-00 1-216-001-00 1-216-045-00	METAL GLAZE METAL GLAZE	1K 680 1K 10 680	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1258 R1259 R1260 R1261 R1262	1-216-065-00 1-216-089-91 1-216-065-00 1-216-089-91 1-216-065-00	METAL GLAZE	4.7K 47K 4.7K 47K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1151 R1152 R1153 R1154 R1201	1-216-049-00 1-216-049-00 1-216-049-00 1-216-041-00 1-216-103-91	METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 1K 470 180K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1263 R1264 R1265 R1266 R1267	1-216-089-91 1-216-065-00	METAL GLAZE	47K 4.7K 47K 4.7K 47K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1202 R1203 R1204 R1205 R1206	1-216-107-00 1-216-073-00 1-216-083-00 1-216-103-91 1-216-107-00		270K 10K 27K 180K 270K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1268 R1269 R1270 R1271 R1272	1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 47K 4.7K 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	





REF.NO.	PART NO.	DESCRIPTION	I	REMARK	REF.NO.	PART NO.	DESCRIPTIO	N		REMARK
R1273 R1274 R1275	1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE 100 5%	1/10W 1/10W 1/10W		C226 C227	1-163-007-11 1-124-907-11	CERAMIC CHIP ELECT	680PF 10MF	10% 20%	50V 50V
R1276	1-216-025-00	METAL GLAZE 100 5%	1/10W		C228	1-124-907-11		10MF	20%	50V
R1277	1-216-025-00	METAL GLAZE 100 5%	1/10W		C229 C230	1-124-478-11 1-124-478-11		100MF 100MF	20% 20%	25V 25V
	< CRY	STAL >			C231		CERAMIC CHIP		20%	16V
					C232	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
X1101 X1102		VIBRATOR, CRYSTAL (KV VIBRATOR, CRYSTAL	/-S3432U/	S3433E) S3432U)	C233	1_163_000_11	CERAMIC CHIP	0 001ME	10%	50V
ALIUZ		VIBRATOR, CRYSTAL		S34320)	C234		CERAMIC CHIP		10%	50V
X1201	1-567-307-11	OSCILLATOR, CRYSTAL (KV	7-S3432U/	S3433E)	C235	1-130-772-00		0.22MF	5%	63V
*****	*****	*********	*****	*****	C236 C237	1-124-618-11 1-124-618-11		2200MF 2200MF	20% 20%	35V 35V
	43 1630 005 3	a noann gowning (WII (	77474747	121D/	g220	1 164 161 11	CEDANTO OUTD	0 0000	1.00,	50V
	*A-1632-205-A	A BOARD, COMPLETE (KV-S	33431A/S3 R1K)	431D/	C238 C239	1-130-772-00	CERAMIC CHIP	0.0022MF	10% 5%	63V
		551.	,,		C240	1-124-916-11	ELECT	22MF	20%	50V
	*A-1632-206-A	A BOARD, COMPLETE (KV-S	53431B)		C241	1-124-916-11		22MF	20%	50V
		**********			C242	1-124-903-11	ELECT	1MF	20%	50V
	*A-1632-208-A	A BOARD, COMPLETE (KV-S	53433E)		C244		CERAMIC CHIP		10%	50V
		******			C248 C249		CERAMIC CHIP		5% 5%	50V 50V
	*A-1632-210-A	A BOARD, COMPLETE (KV-S	33432U)		C251	1-124-282-00		22MF	20%	16V
		*******			C254	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
	4-200-001-01	HOLDER, IC			C255	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
	4-201-023-01	SPACER, INSULATING			C256		CERAMIC CHIP		5%	50V
	4-812-134-00	RIVET NYLON, 3.5			C257 C299		CERAMIC CHIP		5%	50V 16V
	< CAF	PACITOR >			C301		CERAMIC CHIP			25V
C071	1-126-108-11	ELECT 56MF	20%	16V	C302	1-163-038-00	CERAMIC CHIP	0 1MF		25V
C072	1-124-120-11		20%	16V	C303		CERAMIC CHIP			16V
C074		CERAMIC CHIP 220PF	10%	50V	C304		CERAMIC CHIP		10%	25V
C102 C103	1-126-103-11	ELECT 470MF CERAMIC CHIP 0.01MF	20%	16V 50V	C305 C306		CERAMIC CHIP		5% 5%	50V 50V
C104 C105	1-124-477-11 1-124-916-11		20% 20%	16V 50V	C307 C308		CERAMIC CHIP CERAMIC CHIP		10% 10%	50V 25V
C105	1-124-927-11		20%	50V	C309		CERAMIC CHIP		10%	25V
C110	1-124-478-11	ELECT 100MF	20%	25V	C310		CERAMIC CHIP			25V
C120	1-163-031-11	CERAMIC CHIP 0.01MF		50V	C311	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C201	1-130-489-00		5%	50V	C312	1-124-477-11		47MF	20%	16V
C202 C203	1-130-489-00	FILM 0.033MF CERAMIC CHIP 0.47MF	5%	50V 25V	C313 C314		CERAMIC CHIP			50V 25V
C204		CERAMIC CHIP 0.47MF		25V	C314	1-124-477-11		47MF	20%	16V
C205	1-124-907-11		20%	50V	C316	1-163-077-91	CERAMIC CHIP	0.1MF		50V
C206	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V	C317	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C207	1-137-613-11		2%	100V	C318		CERAMIC CHIP		5%	50V
C208 C209		CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF		25V 25V	C319 C320	1-163-038-00	CERAMIC CHIP	U.1MF 47MF	20%	25V 16V
C210	1-164-005-11			25V	C321	1-163-038-00	CERAMIC CHIP		20.0	25V
C213	1-163-023-00	CERAMIC CHIP 0.015MF	10%	50V	C322	1-124-916-11	ELECT	22MF	20%	50V
C214	1-163-023-00	CERAMIC CHIP 0.015MF	10%	50V	C323		CERAMIC CHIP		5%	50V
C215		CERAMIC CHIP 0.047MF	10%	25V	C324	1-124-477-11		47MF	20%	16V
C216 C217	1-163-809-11	CERAMIC CHIP 0.047MF ELECT 2.2MF	10% 20%	25V 50V	C325 C341		CERAMIC CHIP		5% 10%	50V 25V
C218 C219	1-124-925-11	ELECT 2.2MF CERAMIC CHIP 0.0015MF	20% 10%	50V 50V	C342 C343		CERAMIC CHIP		10% 10%	25V 25V
C219	1-163-011-11		10%	50V 50V	C344		CERAMIC CHIP		10.0	16V
C221	1-124-925-11	ELECT 2.2MF	20%	50V	C345	1-164-346-11	CERAMIC CHIP	1MF		16V
C222	1-124-925-11	ELECT 2.2MF	20%	50 <b>V</b>	C346	1-124-916-11	ELECT	22MF	20%	50V
C223	1-136-177-00		5%	50V	C347		CERAMIC CHIP			16V
C224 C225	1-136-177-00	FILM 1MF CERAMIC CHIP 0.0033MF	5% 10%	50V 50V	C348 C349		CERAMIC CHIP			16V 16V
0223	- TOM-107-11	CHAMIC CHIE 0.0033MF	10.0	304	0347	T 104 240 II	CHICAGO CHIF			101



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C350 C351	1-124-907-11 1-124-443-00		20% 20%	50V 10V	CN0104 CN0105		PLUG, CONNECTOR 8P PIN, CONNECTOR 5P	
C353 C354 C355 C356 C357	1-164-346-11 1-162-638-11 1-164-489-11	CERAMIC CHIP 1MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF CERAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF	10% 10%	16V 16V 16V 16V 25V	CN0106 CN0107 CN0108 CN0109 CN0110	*1-568-879-11 *1-568-878-51 1-695-299-11	PIN, CONNECTOR 5P PIN, CONNECTOR 4P PIN, CONNECTOR 3P CONNECTOR, BOARD TO BOARD 50P PIN, CONNECTOR 7P	
C358 C359 C361 C362 C363	1-124-907-11	CERAMIC CHIP 22PF FILM 0.22MF	10% 20% 5% 5% 20%	25V 50V 50V 63V 50V	CN0113 CN0114 CN0115 CN0116 CN0119	*1-568-879-11 *1-564-516-11 *1-568-879-11	CONNECTOR, BOARD TO BOARD 40P PIN, CONNECTOR 4P PLUG, CONNECTOR 13P PIN, CONNECTOR 4P PIN, CONNECTOR 4P	
C365 C366 C401		ELECT 1MF CERAMIC CHIP 0.47MF	20% 20%	16V 50V 16V	CN0127 CN5108		PLUG, CONNECTOR 6P PLUG, CONNECTOR 10P	
C402 C403	1-104-792-51 1-162-637-11	ELECT 33MF CERAMIC CHIP 0.47MF	20%	16V 16V		< DIC	DDE >	
C411 C412 C421 C422 C423		ELECT 47MF	20% 20%	25V 25V 16V 16V 50V	D068 D069 D071 D073 D075	8-719-914-44 8-719-109-89 8-719-109-89	DIODE DAP202K DIODE DAP202K DIODE RD5.6ESB2 DIODE RD5.6ESB2 DIODE DAN202K	
C424 C425 C426 C427 C428	1-163-129-00 1-124-477-11 1-164-346-11	CERAMIC CHIP 330PF CERAMIC CHIP 330PF ELECT 47MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF	5% 5% 20%	50V 50V 16V 16V 16V	D077 D078 D079 D101 D206		DIODE RD5.6ESB2 DIODE RD5.6ESB2 DIODE MTZJ-33C DIODE DAN202K	
C429 C574 C575 C576 C581	1-164-299-11 1-163-075-00	ELECT 330MF CERAMIC CHIP 100PF CERAMIC CHIP 0.22MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.01MF	20% 5% 10% 10%	16V 50V 25V 25V 50V	D207 D208 D209 D210 D211		DIODE 188133 DIODE 188133 DIODE 188133	
C582 C583 C585 C586 C587	1-124-916-11 1-163-133-00	ELECT 22MF CERAMIC CHIP 470PF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.022MF	20% 5% 10% 10% 20%	50V 50V 50V 50V 50V	D212 D213 D214 D215 D216	8-719-914-43 8-719-914-42 8-719-914-43	DIODE 1SS133 DIODE DAN202K DIODE DA204K DIODE DAN202K (KV-S3431B) DIODE DAN202K (KV-S3431B)	
C588 C589 C590 C591 C592	1-124-478-11 1-124-916-11 1-124-925-11	ELECT 22MF	20% 20% 20% 10%	16V 25V 50V 50V 50V	D301 D302 D304 D305 D306	8-719-914-44 8-719-109-89 8-719-914-43	DIODE DAN202K DIODE DAP202K DIODE RD5.6ESB2 DIODE DAN202K DIODE DAN202K	
C593 C595 C599 C644 C681	1-163-109-00		10% 5% 10% 20% 20%	50V 50V 50V 50V 25V	D307 D308 D311 D314 D381	8-719-914-42 8-719-914-42 8-719-914-43	DIODE DAN202K DIODE DA204K DIODE DA204K DIODE DA202K DIODE DAN202K DIODE DIODE RD7.5ESB2	
C682 C683 C685 C686 C687	1-126-516-11 1-124-478-11 1-124-478-11 1-163-038-00 1-124-916-11	ELECT 100MF ELECT 100MF CERAMIC CHIP 0.1MF	20% 20% 20% 20%	16V 25V 25V 25V 25V	D401 D403 D405 D406 D407	8-719-921-69 8-719-921-69 8-719-921-69 8-719-921-69	DIODE MTZJ-9.1 DIODE MTZJ-9.1 DIODE MTZJ-9.1 DIODE MTZJ-9.1 DIODE MTZJ-9.1	
	< FIL	TER >			D571 D681	8-719-921-75	DIODE DA204K DIODE MTZJ-10B	
CF581	1-577-611-11	OSCILALTOR, CERAMIC			D683		DIODE DAP202K	
	< CON	INECTOR >			IC072	< IC		
CN0001 CN0102 CN0103	1-573-296-11	PIN, CONNECTOR 5P CONNECTOR, BOARD TO BO PLUG, CONNECTOR 8P	ARD 10P		IC201	8-759-266-64	IC ST24C16CB1 IC TDA6612-5 (KV-S3431A/S3431B	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTIO	N 	REMA
IC202	8-759-502-21	IC TDA2822M		Q312 Q313	8-729-900-53 8-729-216-22	TRANSISTOR DE		
IC251	8-759-072-99			Q317		TRANSISTOR 2		
IC261 IC301	8-759-072-99	IC TDA2052 IC TDA9145/N2B		0401	0_720_020_74	TRANSISTOR 2	2024128_00	
IC301	8-759-084-91	IC TDA4661/V2		Q402		TRANSISTOR 2		
IC304	8-752-056-54	IC CXA1587S		Q403		TRANSISTOR 2		
IC401	8-752-068-46		31A/S3431D/ 31K/S3432U)	Q404 Q581		TRANSISTOR 2:		
	8-752-067-28	IC CXA1545AS (KV-S34		Q582		TRANSISTOR 2		
IC402				Q583		TRANSISTOR 2:		
IC681	8-759-072-98 4-202-373-01			Q610 Q681	8-729-140-97	TRANSISTOR 2:	SD795A-P	
				Q682		TRANSISTOR D		
IC684 IC685	8-759-701-59 8-759-510-52				< RES	SISTOR >		
	< IF	BLOCK >		JR102	1-216-295-91		0 5%	1/10W
IFB101	1-466-722-11	IF BLOCK (IFH-389)	(KV-S34311/S3431n/	JR104 JR107	1-216-295-91 1-216-295-91	METAL GLAZE	0 5% 0 5%	1/10W 1/10W
TLDIAL			S3433E/S3431K)	JR110	1-216-295-91	METAL GLAZE	0 5%	1/10W
		IF BLOCK (IFH-389F)	(KV-S3431B)	JR111	1-216-295-91	METAL GLAZE	0 5%	1/10W
	1-400-/34-11	IF BLOCK (IFH-395)	(KV-S3432U)	JR112	1-216-295-91	METAL GLAZE	0 5%	1/10W
	< CO1	IL >		JR113	1-216-295-91	METAL GLAZE	0 5%	1/10W
L101	1-412-546-41	INDUCTOR 560U	4	JR114 JR115	1-216-295-91 1-216-295-91		0 5% 0 5%	1/10W 1/10W
L102	1-408-413-00	INDUCTOR 22UH		JR116	1-216-295-91		0 5%	1/10W
L201	1-407-500-00	INDUCTOR 4.7M		TD117	1_216_205_01	MEMAI CIARE	0 50	1 /1 OM
L306 L307	1-408-405-00 1-408-405-00			JR117 JR118	1-216-295-91 1-216-295-91		0 5% 0 5%	1/10W 1/10W
				JR119	1-216-295-91	METAL GLAZE	0 5%	1/10W
L309 L310		INDUCTOR 15UH FERRITE BEAD INDUCTOR	OR 0.450H	JR120 JR121	1-216-295-91 1-216-295-91		0 5% 0 5%	1/10W 1/10W
L575	1-408-397-00	INDUCTOR 1UH						
L611	1-412-539-41			JR122 JR123	1-216-295-91 1-216-295-91		0 5% 0 5%	1/10W 1/10W
L681	1-412-539-41	INDUCTOR 150U	n	JR123 JR124	1-216-295-91		0 5%	1/10W 1/10W
	< IC	LINK >		JR125	1-216-295-91	METAL GLAZE	0 5%	1/10W
PS681 🔥	1-532-605-91	MINK, IC 0.4A (ICR-	out)	JR126	1-216-295-91	METAL GLAZE	0 5%	1/10W
		LINK, IC 0.4A (ICP-		JR127	1-216-295-91		0 5%	1/10W
	ረ ጥር፤	ANSISTOR >		JR128 JR129	1-216-295-91 1-216-295-91		0 5% 0 5%	1/10W 1/10W
				JR130	1-216-295-91	METAL GLAZE	0 5%	1/10W
Q071 Q101		TRANSISTOR DTA124EK TRANSISTOR 2SA1162-		JR131	1-216-295-91	METAL GLAZE	0 5%	1/10W
Q102	8-729-901-00	TRANSISTOR DTC124EK		JR132	1-216-295-91		0 5%	1/10W
Q103	8-729-900-53	TRANSISTOR DTC114EK		JR133	1-216-295-91		0 5%	1/10W
Q201	8-729-920-74	TRANSISTOR 2SC2412K	-Vv	JR134 JR135	1-216-295-91 1-216-295-91		0 5% 0 5%	1/10W 1/10W
Q202		TRANSISTOR 2SC2412K		JR136	1-216-295-91		0 5%	1/10W
Q203 Q204		TRANSISTOR 2SC2412K TRANSISTOR 2SA1162-		JR137	1-216-295-91	METAL GLAZE	0 5%	1/10W
Q205	8-729-216-22	TRANSISTOR 2SA1162-	G	JR138	1-216-296-91	METAL GLAZE	0 5%	1/8W
Q206	8-729-216-22	TRANSISTOR 2SA1162-	G	JR139 JR140	1-216-295-91		0 5% 0 5%	1/10W 1/10W
Q207	8-729-920-74	TRANSISTOR 2SC2412K	-QR	JR140 JR141	1-216-295-91 1-216-295-91		0 5%	1/10W
Q209	8-729-920-74	TRANSISTOR 2SC2412K	-QR				0 50	1 /1 OM
Q210 Q301		TRANSISTOR 2SC2412K TRANSISTOR DTC124EK		JR142 JR143	1-216-295-91 1-216-295-91		0 5% 0 5%	1/10W 1/10W
Q302		TRANSISTOR 2SA1162-		JR144	1-216-295-91	METAL GLAZE	0 5%	1/10W
Q303	8-729-216-22	TRANSISTOR 2SA1162-	G.	JR149 JR150	1-216-295-91 1-216-295-91		0 5% 0 5%	1/10W 1/10W
Q304	8-729-900-53	TRANSISTOR DTC114EK		8 0 0 0 0 0				
Q305 Q306		TRANSISTOR DTC114EK TRANSISTOR 2SA1162-		JR151 JR152	1-216-295-91 1-216-296-91		0 5% 0 5%	1/10W 1/8W
Q308		TRANSISTOR 2SA1162-		JR152 JR201	1-216-296-91		0 5%	1/8W
				JR202	1-216-296-91	METAL GLAZE	0 5%	1/8W
Q309 Q311	8-729-931-02 8-729-901-06	TRANSISTOR 2SC2413K TRANSISTOR DTA144EK		JR203	1-216-296-91	METAL GLAZE	0 5%	1/8W
-				1				



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REF.NO.	PART NO.	DESCRIPTION	N		REMARK	REF.NO.	PART NO.	DESCRIPTION	N		F	REMARK
JR204	1-216-296-91	METAL GLAZE	0	5%	1/8W	R115	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W	
JR205	1-216-296-91	METAL GLAZE	0	5%	1/8W	R201	1-216-653-11	METAL CHIP	1.2K	0.50%		
JR206	1-216-296-91	METAL GLAZE	0	5%	1/8W	R202	1-216-653-11	METAL CHIP	1.2K		1/10W	
JR207 JR208	1-216-296-91	METAL GLAZE METAL GLAZE	0	5%	1/8W	R203	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
JR206	1-216-296-91	METAL GLAZE	U	5%	1/8W	R204	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
JR209	1-216-296-91	METAL GLAZE	0	5%	1/8W	R205	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
JR210	1-216-296-91	METAL GLAZE	Ō	5%	1/8W	R206	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
JR211	1-216-296-91	METAL GLAZE	0	5%	1/8W	R207	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
JR212	1-216-296-91	METAL GLAZE	0	5%	1/8W	R208	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
JR213	1-216-296-91	METAL GLAZE	0	5%	1/8W	2000	1 040 277 44	G1 22 01	0.45	F0		_
JR214	1-216-296-91	METAL GLAZE	0	5%	1/8W	R209 R210	1-249-377-11 1-247-734-11	CARBON CARBON	0.47	5% 5%	1/4W	F
JR215	1-216-296-91	METAL GLAZE	0	5%	1/8W	R211	1-247-734-11	CARBON	39 39	5%	1/2W 1/2W	
JR216	1-216-296-91	METAL GLAZE	Õ	5%	1/8W	R212	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
JR217	1-216-296-91	METAL GLAZE	0	5%	1/8W	R213	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
JR218	1-216-296-91	METAL GLAZE	0	5%	1/8W							
<b>TD 04 0</b>	1 046 006 04				4 10	R214	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
JR219	1-216-296-91	METAL GLAZE	0	5%	1/8W	R215	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
JR220 JR221	1-216-296-91 1-216-296-91	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/8W	R216 R217	1-216-049-00 1-216-045-00	METAL GLAZE	1K 680	5% 5%	1/10W 1/10W	
JR222	1-216-296-91	METAL GLAZE	0	5%	1/8W	R217	1-216-043-00	METAL GLAZE	22K	5%	1/10W	
JR223	1-216-296-91	METAL GLAZE	Ö	5%	1/8W	NZ I	1 110 001 00	MITTE GUILLE	2211	3.0	1/1011	
						R221	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F
JR224	1-216-296-91	METAL GLAZE	0	5%	1/8W	R222	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
JR225	1-216-296-91	METAL GLAZE	0	5%	1/8W	R223	1-216-045-00	METAL GLAZE	680	5%	1/10W	
JR226	1-216-296-91	METAL GLAZE	0	5%	1/8W	R224	1-249-433-11	CARBON	22K	5%	1/4W	_
JR227 JR228	1-216-296-91 1-216-296-91	METAL GLAZE	0	5% 5%	1/8W 1/8W	R225	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F.
ONZZO	1 210 270 71	MBIAU GUAZE	U	3.0	1/04	R226	1-249-412-11	CARBON	390	5%	1/4W	
JR230	1-216-296-91	METAL GLAZE	0	5%	1/8W	R227	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
JR231	1-216-296-91	METAL GLAZE	0	5%	1/8W	R228	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
JR232	1-216-296-91	METAL GLAZE	0	5%	1/8W	R229	1-216-039-00	METAL GLAZE	390	5%	1/10W	
JR233	1-216-296-91	METAL GLAZE	0	5%	1/8W	R230	1-216-246-91	METAL GLAZE	100K	5%	1/8W	
JR234	1-216-296-91	METAL GLAZE	0	5%	1/8W	R231	1-216 007 00	MEMAI CIACE	1007	E0.	1 /1 Out	
JR235	1-216-296-91	METAL GLAZE	0	5%	1/8W	R231	1-216-097-00 1-216-081-00	METAL GLAZE METAL GLAZE	100K 22K	5% 5%	1/10W 1/10W	
JR236	1-216-296-91	METAL GLAZE	ŏ	5%	1/8W	R233	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
JR237	1-216-296-91	METAL GLAZE	0	5%	1/8W	R234	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
JR238	1-216-296-91	METAL GLAZE	0	5%	1/8W	R235	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
JR240	1-216-296-91	METAL GLAZE	0	5%	1/8W							
JR241	1 216 206 01	METAL GLAZE	0	5%	1/8W	R236	1-216-081-00 1-216-025-00	METAL GLAZE	22K		1/10W	
JR242	1-216-296-91 1-216-296-91	METAL GLAZE	0	5%	1/8W	R237 R238	1-216-025-00	METAL GLAZE	100 100	5% 5%	1/10W 1/10W	
JR243	1-216-296-91	METAL GLAZE	ŏ	5%	1/8W	R241	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
JR245	1-216-296-91	METAL GLAZE	Ō	5%	1/8W	R242	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W	
JR247	1-216-296-91	METAL GLAZE	0	5%	1/8W							
TD040	1 016 006 01				4.10	R244	1-216-069-00		6.8K		1/10W	
JR248 JR250	1-216-296-91		0	5%	1/8W	R245	1-216-089-91		47K		1/10W	
JR251	1-216-296-91 1-216-296-91		0	5% 5%	1/8W 1/8W	R246 R247	1-216-097-00 1-216-073-00		100K 10K		1/10W 1/10W	
JR252	1-216-296-91		0	5%	1/8W	R248	1-216-073-00	METAL GLAZE	10K		1/10W	
JR253	1-216-296-91		Ö	5%	1/8W		1 220 075 00	IIIII CHILL	2020	30	-/	
						R249	1-216-045-00		680		1/10W	
JR254	1-216-296-91		0	5%	1/8W	R250	1-216-095-00		82K		1/10W	
JR255	1-216-296-91		0	5%	1/8W	R251	1-216-065-00	METAL GLAZE	4.7K		1/10W	
JR271 JR272	1-216-295-91 1-216-295-91		0	5% 5%	1/10W	R252	1-216-073-00		10K		1/10W	
UNZIZ	1-210-293-91	METAL GLAZE	U	5%	1/10W	R253	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R071	1-216-041-00	METAL GLAZE	470	5%	1/10W	R254	1-216-252-00	METAL GLAZE	180K	5%	1/8W	
R072	1-216-033-00		220	5%	1/10W	R255	1-216-252-00		180K		1/8W	
R073	1-216-033-00		220	5%	1/10W	R256	1-249-409-11	CARBON	220	5%	1/4W	
R074	1-216-198-91		1K	5%	1/8W	R257	1-249-409-11	CARBON	220		1/4W	
R076	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	R258	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R077	1-216-025-00	MEMAT OTAGE	100	5%	1/10W	poso	1_216 062 00	MEMAT CLASS	2 077	E%	1 /1 054	
R101	1-216-025-00		100	5% 5%	1/10W 1/10W	R259 R260	1-216-063-00 1-216-212-00	METAL GLAZE	3.9K 3.9K		1/10W 1/8W	
R102	1-216-049-00		1K	5%	1/10W	R295	1-216-295-91		0		1/10W	
R103	1-216-059-00		2.7K		1/10W	R296	1-216-037-00		330		1/10W	
R105	1-216-073-00	METAL GLAZE	10K	5%	1/10W					(KV-S3		
D100	1 010 000 00	umma - Ar	00-	F0	1 /02							
R108	1-216-230-00	METAL GLAZE	22K	5%	1/8W							



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REF.NO.	PART NO.	DESCRIPTIO	N		REMARK	REF.NO.	PART NO.	DESCRIPTION	N		REMARK
R297	1-216-027-00	METAL GLAZE	120	5%	1/10W	R370	1-216-033-00	METAL GLAZE	220	5%	1/10W
R301 R302 R303	1-216-041-00 1-216-041-00 1-216-174-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 470 100	5% 5% 5%	33431B) 1/10W 1/10W 1/8W	R371 R373 R376 R377	1-216-033-00 1-216-017-00 1-216-065-00 1-216-051-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 47 4.7K 1.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R304 R305 R306 R307 R308	1-216-174-00 1-216-035-00 1-216-035-00 1-216-075-00 1-216-121-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 270 270 12K 1M	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W	R378 R379 R380 R381 R382	1-216-057-00 1-216-206-00 1-216-057-00 1-216-164-00 1-216-164-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 2.2K 2.2K 39 39	5% 5% 5% 5%	1/10W 1/8W 1/10W 1/8W 1/8W
R309 R310 R311 R312 R313	1-216-001-00 1-216-001-00 1-216-065-00 1-249-413-11 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL GLAZE	10 10 4.7K 470 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/4W 1/10W	R383 R384 R391 R392 R393	1-216-164-00 1-216-025-00 1-216-069-00 1-216-061-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	39 100 6.8K 3.3K 10K	5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W
R314 R315 R316 R317 R318	1-249-409-11 1-249-409-11 1-216-085-00 1-216-073-00 1-216-041-00	CARBON CARBON METAL GLAZE METAL GLAZE METAL GLAZE	220 220 33K 10K 470	5% 5% 5% 5%	1/4W 1/4W 1/10W 1/10W 1/10W	R394 R395 R396 R401 R402	1-216-081-00 1-216-091-00 1-216-081-00 1-216-171-00 1-216-158-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 56K 22K 75 22	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/8W 1/8W
R319 R320 R321 R322 R324	1-249-413-11 1-216-174-00 1-216-039-00 1-216-041-00 1-216-049-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 100 390 470 1K	5% 5% 5% 5%	1/4W 1/8W 1/10W 1/10W 1/10W	R403 R404 R405 R406 R407	1-216-025-00 1-216-158-00 1-216-025-00 1-216-158-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 22 100 22 100	5% 5% 5% 5% 5%	1/10W 1/8W 1/10W 1/8W 1/10W
R325 R326 R328 R329 R330	1-216-041-00 1-216-073-00 1-216-025-00 1-216-023-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 10K 100 82 1.5K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R408 R410 R411 R412 R413	1-216-093-00 1-216-067-00 1-216-067-00 1-216-022-00 1-216-022-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	68K 5.6K 5.6K 75 75	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R331 R333 R334 R336 R337	1-216-097-00 1-216-182-00 1-216-182-00 1-216-029-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 220 220 150 470	5% 5% 5% 5%	1/10W 1/8W 1/8W 1/10W 1/10W	R414 R416 R417 R419 R420	1-216-022-00 1-216-113-00 1-216-067-00 1-216-113-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	75 470K 5.6K 470K 5.6K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R338 R339 R340 R341 R342	1-216-035-00 1-216-025-00 1-216-025-00 1-216-025-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	270 100 100 100 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R423 R424 R425 R426 R427	1-216-015-00 1-216-025-00 1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	39 100 100 100 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R343 R344 R345 R346 R347	1-216-022-00 1-216-022-00 1-216-171-00 1-216-022-00 1-216-083-00	METAL GLAZE METAL GLAZE METAL GLAZE	75 75 75 75 27K	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/10W	R428 R572 R574 R575 R577	1-249-393-11 1-216-198-91 1-216-041-00 1-216-186-00 1-216-095-00	METAL GLAZE METAL GLAZE METAL GLAZE	10 1K 470 330 82K	5% 5% 5% 5%	1/4W F 1/8W 1/10W 1/8W 1/10W
R351 R352 R354 R355 R356	1-216-073-00 1-216-033-00 1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 220 220 220 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R578 R580 R581 R582 R583	1-216-238-91 1-216-651-11 1-216-033-00 1-216-037-00 1-216-053-00	METAL CHIP METAL GLAZE METAL GLAZE	47K 1K 220 330 1.5K	5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W
R357 R358 R359 R360 R361	1-216-041-00 1-216-031-00 1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 180 220 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R584 R585 R586 R587 R588	1-216-039-00 1-216-067-00 1-216-047-00 1-216-047-00 1-216-101-00	METAL GLAZE METAL GLAZE METAL GLAZE	390 5.6K 820 820 150K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R362 R365 R367 R368 R369	1-216-077-00 1-216-073-00 1-216-296-91 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	15K 10K 0 220 220	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/10W	R589 R590 R591 R592 R593	1-216-073-00 1-216-049-00 1-216-073-00 1-216-232-00 1-216-673-11	METAL GLAZE METAL GLAZE METAL GLAZE	10K 1K 10K 27K 8.2K	5% 5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/8W 1/10W

# **A IF**( KV-S3431A/S3431D/)

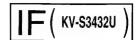
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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMAR	₹K
R594 R595 R596	1-216-663-11 1-216-643-11 1-216-067-00	METAL CHIP 470 0	.50% 1/10W .50% 1/10W % 1/10W	C161 C162		CERAMIC CHIP 100PF CERAMIC CHIP 0.22MF	5% 50V 25V	
R597 R598	1-216-230-00 1-216-053-00	METAL GLAZE 1.5K 5	% 1/10W	C163 C164 C165	1-163-141-00 1-164-232-11	CERAMIC CHIP 1MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.01F	16V 5% 50V 10% 50V	
R600 R616 R619	1-216-174-00 1-216-184-00 1-216-077-00	METAL GLAZE 270 50 METAL GLAZE 15K 50	% 1/8W % 1/10W	C166 C167	1-124-477-11 1-163-213-00	CERAMIC CHIP 0.0022MF	20% 16V 5% 50V	
R628 R632 R681	1-249-413-11 1-216-065-00	METAL GLAZE 4.7K 5	% 1/10W	C168 C170 C171	1-124-477-11 1-124-477-11	ELECT 47MF	16V 20% 16V 20% 16V	
R682 R683	1-216-541-00 1-249-415-11 1-216-073-00	CARBON 680 59 METAL GLAZE 10K 59	% 1/4W % 1/10W	C173	1-124-477-11 < FII	ELECT 47MF	20% 16V	
R2219 R2220	1-216-174-00 1-216-174-00			CF2 CF3		FILTER, CERAMIC FILTER, CERAMIC		
R2221 R2222	1-216-174-00 1-216-174-00			CF4 SWF1		FILTER, CERAMIC FILTER, SAWTOOTH WAVE		
	< TUN	NER >		5,112	1 3/3 030 11	TIDIDA, DANIOOTI NAVE		
TU101	1-693-185-11		431A/S3431B/ 433E/S3431K)	CN1		<pre>INECTOR &gt;    PIN, CONNECTOR (PC BOARD</pre>	\ 10p	
		TUNER (U944C) (KV-S34		CN2	1-750-173-11	PIN, CONNECTOR (PC BOARD		
	< CRY	/STAL >			< TRI	MMER >		
X301 X302	1-567-504-11 1-567-505-11	OSCILLATOR, CRYSTAL OSCILLATOR, CRYSTAL		CT1		TRAP, CERAMIC		
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	1-466-733-11	IF BLOCK (IFH-389) (K	V-S3431A/S3431D/	D161		DIODE MA152WK		
		********************************	3433E/S3431K)		< IC	>		
C101	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	IC1 IC2 IC3	8-759-070-76 8-759-070-71 8-759-514-54	IC TDA9820		
C102 C103 C104	1-164-232-11	CERAMIC CHIP 0.22MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01F	25V 10% 50V 10% 50V		< COI	L >		
C105 C106 C107 C108 C109	1-124-477-11 1-164-004-11 1-164-004-11	CERAMIC CHIP 0.1MF  ELECT 47MF  CERAMIC CHIP 0.1MF  CERAMIC CHIP 0.1MF  CERAMIC CHIP 0.01F	10% 25V  20% 16V  10% 25V  10% 25V  10% 50V	L101 L102 L103 L104 L121	1-408-421-00 1-408-419-00 1-408-419-00 1-408-408-00 1-408-413-00	INDUCTOR 68UH INDUCTOR 68UH INDUCTOR 8.2UH		
C112 C113	1-164-004-11 1-164-101-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 22PF	10% 50V 10% 25V 5% 50V	L122 L142 L151	1-408-420-00 1-408-790-00 1-408-419-00	INDUCTOR 0.56UH		
C114 C115	1-124-477-11	ELECT 47MF CERAMIC CHIP 0.01F	20% 16V 10% 50V	L161	1-408-419-00			
C116 C118	1-164-346-11	CERAMIC CHIP 0.01F CERAMIC CHIP 1MF CERAMIC CHIP 0.1MF	16V 10% 25V			NSISTOR >		
C119 C121 C122 C123 C124	1-163-235-11 1-164-239-11 1-163-235-11	CERAMIC CHIP 47PFF CERAMOC CHIP 22PF CERAMIC CHIP 33PF CERAMIC CHIP 22PF CERAMIC CHIP 0.1MF	5% 25V 5% 50V 5% 50V 5% 50V 10% 25V	Q101 Q102 Q121 Q122 Q161	8-729-216-22 8-729-920-74 8-729-216-22	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G		
C130 C131 C133 C152 C153	1-216-295-00 1-163-093-00 1-124-477-11 1-164-337-11	METAL GLAZE 0 5	5% 1/10W 5% 50V 20% 16V 16V 16V	Q170 Q171 Q172 Q173	8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR ISTOR >		
C154 C155 C156	1-164-337-11	CERAMIC CHIP 2.2MF CERAMIC CHIP 0.01F	16V 10% 50V 20% 16V	JR2 JR3 JR4	1-216-295-00 1-216-296-00 1-216-295-00	METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/8W 1/10W	

<b> </b> ( KV-S3431B	$\overline{)}$
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REF.NO.	PART NO.	DESCRIPTIO	N		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N		REMARK
JR7	1-216-295-00	METAL GLAZE	0	5%	1/10W	R163	1-216-113-00	METAL GLAZE	470K 5%	1/10	W
JR8	1-216-295-00	METAL GLAZE	0	5%	1/10W	R164	1-216-113-00		470K 5%	1/10	
ONO	1 210 255 00	MUTTIL QUILLE	•	5 0	1/ 1011	R165	1-216-081-00		22K 5%	1/10	
JR9	1-216-296-00	METAL GLAZE	0	5%	1/8W	R166	1-216-049-00		1K 5%	1/10	
JR11	1-216-296-00		0	5%	1/8W	R167	1-216-073-00		10K 5%	1/10	
JR14	1-216-296-00	METAL GLAZE	0	5%	1/8W						
JR16	1-216-295-00		0	5%	1/10W	R168	1-216-113-00		470K 5%	1/10	
JR18	1-216-295-00	METAL GLAZE	0	5%	1/10W	R169	1-216-049-00		1K 5%	1/10	
			_			R170	1-216-083-00		27K 5%	1/10	
JR19	1-216-296-00		0	5%	1/8W	R171	1-216-075-00		12K 5%	1/10	
JR20	1-216-296-00		0	5%	1/8W	R172	1-216-095-00	METAL GLAZE	82K 5%	1/10	N
JR21 JR23	1-216-296-00 1-216-296-00		0	5% 5%	1/8W 1/8W	R173	1-216-059-00	METAL GLAZE	2.7K 5%	1/10	tar
JR24	1-216-296-00	METAL GLAZE	0	5%	1/8W	R174	1-216-057-00		2.2K 5%	1/10	
UNZ4	1-210-230-00	METAD GUAZE	v	370	1/011	R175	1-216-083-00		27K 5%	1/10	
JR25	1-216-296-00	METAL GLAZE	0	5%	1/8W	R176	1-216-075-00		12K 5%	1/10	
JR29	1-216-296-00		Ō	5%	1/8W	R177	1-216-095-00		82K 5%	1/10	
JR30	1-216-295-00		0	5%	1/10W						
JR33	1-216-295-00		0	5%	1/10W	R178	1-216-059-00	METAL GLAZE	2.7K 5%	1/10	W
JR38	1-216-296-00	METAL GLAZE	0	5%	1/8W	R179	1-216-057-00		2.2K 5%	1/10	
						R180	1-216-037-00		330 5%	1/10	
JR39	1-216-296-00	METAL GLAZE	0	5%	1/8W	R181	1-216-037-00	METAL GLAZE	330 5%	1/10	Ň
JR40	1-216-296-00	METAL GLAZE	0	5%	1/8						
D101	1 016 075 00		4.0**	E0.	4 /4 0**		< VAI	RIABLE RESISTOR	₹ >		
R101	1-216-075-00		12K	5%	1/10W	D171	1 041 101 11	DEG 3D7 G31	200V 4 7V		
R102 R103	1-216-073-00 1-216-057-00		10K 2.2K	5% 5%	1/10W 1/10W	RV1	1-241-121-11	RES, ADJ, CAR	KDUN 4./K		
R104	1-216-051-00		1.2K		1/10W		מידי /	ANSFORMER >			
R106	1-216-049-00		1K	5%	1/10W		V 110	and to during /			
	013 00				-/	Т4	1-416-017-21	COIL			
R107	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	<b>T</b> 5	1-416-018-21				
R108	1-216-065-00	METAL GLAZE	4.7K		1/10W						
R110	1-216-041-00	METAL GLAZE	470	5%	1/10W	******	******	*****	*******	******	*******
R113	1-216-031-00		180	5%	1/10W						
R114	1-216-049-00	METAL GLAZE	1K	5%	1/10W		1-466-735-11	IF BLOCK (IFF		-S3431B	)
R115	1-216-027-00	METAL GLAZE	120	5%	1/10W			***********	*****		
R116	1-216-02/-00		150K		1/10W		CM CM	PACITOR >			
R117	1-216-097-00		100K		1/10W		\ CAI	ACTION >			
R118	1-216-117-00		680K		1/10W	C1	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
R119	1-216-240-00		56K	5%	1/8W	C2		CERAMIC CHIP		10%	50V
						C3	1-124-903-11	ELECT	1MF	20%	50V
R120	1-216-075-00		12K	5%	1/10W	C4	1-164-232-11			10%	50V
R121	1-216-053-00		1.5K		1/10W	C5	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
R122	1-216-061-00		3.3K		1/10W	9.5	1 162 015 00	0000000 00000	0.004534	4.00	F 0 ***
R123 R124	1-216-075-00		12K	5%	1/10W 1/10W	C6 C7		CERAMIC CHIP CERAMIC CHIP		10% 10%	50V 50V
VT74	1-216-041-00	METAL GLAZE	470	5%	1/10W	C8	1-164-232-11 1-163-017-00			10%	50V
R125	1-216-041-00	METAL GLAZE	470	5%	1/10W	C9	1-124-916-11		22MF	20%	25V
R127	1-216-047-00		820	5%	1/10W	C10	1-164-232-11			10%	50V
R130	1-216-049-00		1K	5%	1/10W						
R131	1-216-025-00	METAL GLAZE	100	5%	1/10W	C11	1-124-477-11	ELECT	47MF	20%	16V
R132	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	C13	1-163-059-00		0.01MF	10%	50V
-422					4.14.6	C14	1-124-477-11		47MF	20%	16V
R133	1-216-061-00		3.3K		1/10W	C15	1-124-903-11		1MF	20%	50V
R134 R135	1-216-049-00		1K	5%	1/10W	C16	1-163-061-00	CERAMIC CHIP	0.015MF	10%	50V
R150	1-216-198-00 1-216-043-00		1K 560	5% 5%	1/8W 1/10W	C17	1-162-638-11	CERAMIC CHIP	1 M F		16V
R151	1-216-043-00		560	5%	1/10W	C18	1-162-638-11				16V
	- 210 013 00		500	3.0	1/ 1011	C19	1-163-141-00			5%	50V
R152	1-216-043-00	METAL GLAZE	560	5%	1/10W	C20	1-124-902-00		0.47MF	20%	50V
R153	1-216-025-00	METAL GLAZE	100	5%	1/10W	C21	1-124-903-11	ELECT	1MF	20%	50V
R154	1-216-049-00		1K	5%	1/10W						
R155	1-216-051-00		1.2K		1/10W	C22	1-164-232-11			10%	50V
R156	1-216-083-00	METAL GLAZE	27K	5%	1/10W	C23	1-124-902-00		0.47MF	20%	50V
p157	1 016 054 00	WIIMAT GTATE	4 0**	EO.	1 /1 01/1	C24	1-164-506-11			0.00-	16V
R157 R159	1-216-051-00		1.2K		1/10W	C25	1-124-477-11		47MF	20%	16V
R160	1-216-107-00 1-216-049-00		270K 1K	5% 5%	1/10W 1/10W	C26	1-164-232-11	CERAMIC CHIP	U.UIMF	10%	50V
R161	1-216-755-11				1/10W 1/10W	C27	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
R162	1-216-073-00		10K	5%	1/10W	C28	1-124-477-11		47MF	20%	16V
			_ ***		-:	C33	1-124-907-11		10MF	20%	50V
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REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		REMARK	REF.NO.	PART NO.	DESCRIPT	ION		REMARK
C34 C35	1-124-907-11 1-124-925-11		10MF 2.2MF	20% 20%	50V 50V	L3 L4 L5	1-408-407-00 1-408-419-00 1-408-419-00	INDUCTOR	6.8UH 68UH 68UH		
C36	1-124-477-11		47MF	20%	16V						
C37 C38		CERAMIC CHIP		10% 10%	50V 50V	L7 L9	1-408-406-00 1-408-419-00		5.6UH 68UH		
C40		CERAMIC CHIP		10%	50V	L71	1-408-419-00		68UH		
C71	1-124-477-11		47MF	20%	16V	L101	1-408-399-00	INDUCTOR	1.5UH		
C72	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	L121	1-408-407-00	INDUCTOR	6.8UH		
C80	1-124-477-11	ELECT	47MF	20%	16V		< TRA	NSISTOR >			
C83	1-124-477-11		47MF	20%	16V	01	0 700 007 06	MD 1 MAT AMAD	DD100 33	7.0	
C84 C85	1-124-477-11 1-124-477-11		47MF 47MF	20% 20%	16V 16V	Q1 Q4	8-729-907-06 8-729-920-74				
						Q5	8-729-115-10	TRANSISTOR	2SK105A-	10	
C86	1-124-477-11		47MF	20%	16V 16V	Q6	8-729-900-52				
087 091	1-124-477-11	CERAMIC CHIP	47MF 12PF	20% 5%	50V	Q7	8-729-216-22	TRANSISTOR	Z2W110Z-	·G	
C95	1-164-337-11	CERAMIC CHIP	2.2MF		16V	Q8	8-729-920-74				
C101	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	Q10 Q11	8-729-920-74 8-729-920-74				
C102	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	Q11	8-729-920-74				
C104	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	Q13	8-729-920-74				
C105 C106		CERAMIC CHIP CERAMIC CHIP		10% 10%	50V 50V	014	8-729-920-74	TO A NICTOMAR	2 C C 2 # 1 2 E	_OD	
C106 C119	1-163-017-00			10% 5%	25V	Q14 Q15	8-729-920-74				
						Q16	8-729-216-22	TRANSISTOR	2SA1162-		
C121 C122	1-126-176-11	ELECT CERAMIC CHIP	220MF	20% 5%	10V 50V	Q101 Q121	8-729-104-80 8-729-920-74			-OP	
2131	1-126-099-11		2.2MF	20%	35V	Q121	0-129-920-14	IVWINDIDION	20024121	.−QI\	
		LTER >					< RES	ISTOR >			
						JR2	1-216-295-00			5%	1/10W
CF1 CF2		FILTER, CERAL				JR3 JR5	1-216-296-00 1-216-296-00		0	5% 5%	1/8W 1/8W
CF3		FILTER, CERAL				UKS	1-210-290-00	METAL GLAZE	U	26	1/ OW
CF4		FILTER, CERA				R1	1-216-025-00		100	5%	1/10W
SWF1	1_570_662_11	FILTER, SURF	ACE WATE			R2 R3	1-216-065-00 1-216-065-00		4.7K 4.7K	5% 5%	1/10W 1/10W
SWF3	1-404-711-11	SAWF	ACE WAVE			R4	1-216-065-00		470	5%	1/10W 1/10W
SWF4	1-579-660-11	FILTER, SAWT	OOTH WAVE			R5	1-216-021-00	METAL GLAZE	68	5%	1/10W
	< COM	NNECTOR >				R6 R8	1-216-055-00 1-216-051-00		1.8K 1.2K		1/10W 1/10W
CN1	1-750-173-11	PIN, CONNECT	OR (PC BOAR	D) 10P		R9	1-216-069-00		6.8K		1/10W 1/10W
CN2		PIN, CONNECT				R10	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
	< TR	IMMER >				R11	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
Cm1			0			R24	1-216-280-00		2.7M		1/8W
CT1 CT2		TRAP, CERAMI	-			R25 R26	1-216-057-00 1-216-061-00		2.2K 3.3K	5% 5%	1/10W 1/10W
						R27	1-216-266-00	METAL GLAZE	680K	5%	1/8W
CV1		CAP, TRIMMER				R28	1-216-075-00	METAL GLAZE	12K	5%	1/10W
CV1 CV3		CAP, TRIMMER TRIMMER, CER				R29	1-216-035-00	METAL GLAZE	270	5%	1/10W
						R30	1-216-049-00	METAL GLAZE	IK	5%	1/10W
	< DIC	DDE >				R31	1-216-017-00	METAL GLAZE	47	5% 5%	1/10W
70	8-719-421-57	DIODE MA73-T	X			R32 R33	1-216-043-00 1-216-037-00		560 330	5% 5%	1/10W 1/10W
D8	8-719-421-57	DIODE MA73-T	X								
D9	8-719-421-57	DIODE MA73-T	Х			R34	1-216-252-00		180K	5% 5%	1/8W
	< IC	>				R35 R36	1-216-035-00 1-216-029-00		270 150	5%	1/10W 1/10W
						R37	1-216-049-00	METAL GLAZE	IK	5%	1/10W
IC1 IC2	8-759-070-75					R38	1-216-099-00	METAL GLAZE	120K	5%	1/10W
.C2 :C3	8-759-070-71 8-759-979-62					R39	1-216-089-00	METAL GLAZE	47K	5%	1/10W
						R40	1-216-049-00	METAL GLAZE	IK	5%	1/10W
	< CO	[L >				R42 R43	1-216-061-00 1-216-067-00		3.3K 5.6K	5% 5%	1/10W 1/10W
L1	1-408-419-00	INDUCTOR	68UH			R44	1-216-087-00		120	5%	1/10W 1/10W
L2	1-408-419-00		68UH								



								,			
REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		REMARK	REF.NO.	PART NO.	DESCRIPTION	ON		REMARK
R45	1-216-041-00		470	5%	1/10W		< VAR	ABLE RESISTOR	>		
R46 R47	1-216-031-00 1-216-075-00		180	5%	1/10W	מזים	1 241 120 11	DEG ADT GA	DDOM O OW		
R47 R48	1-216-075-00	METAL GLAZE	12K 22K	5% 5%	1/10W 1/10W	RV2	1-241-120-11	RES, ADJ, CA	KBON 2.2K		
R49	1-216-049-00	METAL GLAZE	IK	5%	1/10W		< TRA	ANSFORMER >			
R53	1-216-082-00	METAL GLAZE	24K	5%	1/10W	T1	1-404-806-21	COIL			
R54	1-216-043-00		560	5%	1/10W	Т3	1-416-012-11				
R55	1-216-043-00		560	5%	1/10W	T4	1-416-012-11				
R56 R57	1-216-065-00 1-216-065-00		4.7K 4.7K	5% 5%	1/10W 1/10W	Т5	1-402-720-11	COIL			
KJ/	1-210-003-00	MEIAU GUAZE	2./K	20	1/1011		< CR	STAL >			
R58	1-216-041-00		470	5%	1/10W						
R59	1-216-043-00		560	5%	1/10W	X1	1-579-648-21	VIBRATOR, CE	RAMIC		
R60 R61	1-216-043-00 1-216-295-00		560 0	5% 5%	1/10W 1/10W	******	******	*********	********	*****	******
R63	1-216-043-00	METAL GLAZE	560	5%	1/10W						
				• •	_,	1	1-466-734-11 I			32U)	
R71	1-216-079-00		18K	5%	1/10W		*1	*******	***		
R72	1-216-079-00		18K	5%	1/10W			2.27808			
R73 R74	1-216-049-00 1-216-079-00		1K 18K	5% 5%	1/10W 1/10W		< CAI	PACITOR >			
R75	1-216-079-00	METAL GLAZE	18K	5%	1/10W	C101	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
					_,	C102	1-164-222-11	CERAMIC CHIP			25V
R76	1-216-025-00		100	5%	1/10W	C103	1-164-232-11			10%	50V
R77 R81	1-216-174-00		100	5%	1/8W	C104	1-164-232-11			10%	50V
R82	1-216-095-00 1-216-121-00	METAL GLAZE METAL GLAZE	82K 1M	5% 5%	1/10W 1/10W	C105	1-164-004-11	CERAMIC CHIP	U.IMF	10%	25V
R83	1-216-025-00	METAL GLAZE	100	5%	1/10W	C106	1-124-477-11	ELECT	47MF	20%	16V
						C107	1-164-004-11			10%	25V
R84	1-216-085-00		33K	5%	1/10W	C108	1-164-004-11			10%	25V
R85 R86	1-216-085-00 1-216-689-00	METAL GLAZE	33K 39K	5% 5%	1/10W 1/10W	C109 C112	1-164-232-11			10%	50V
R87	1-216-095-00	METAL GLAZE	82K	5% 5%	1/10W	C112	1-164-004-11	CERAMIC CHIP	U.IMF	10%	25V
R88	1-216-095-00	METAL GLAZE	82K	5%	1/10W	C113	1-164-101-00	CERAMIC CHIP	22PF	5%	50V
						C114	1-124-477-11		47MF	20%	16V
R89	1-216-095-00	METAL GLAZE	82K	5%	1/10W	C115	1-164-232-11	CERAMIC CHIP		10%	50V
R90 R91	1-216-075-00 1-216-295-00	METAL GLAZE METAL GLAZE	12K 0	5% 5%	1/10W 1/10W	C116 C118	1-164-346-11 1-164-004-11	CERAMIC CHIP CERAMIC CHIP		10%	16V 25V
R92	1-216-075-00	METAL GLAZE	12K	5%	1/10W	CIIO	1-104-004-11	CERAMIC CHIP	U. IMP	10.0	234
R93	1-216-075-00	METAL GLAZE	12K	5%	1/10W	C119	1-163-369-11	CERAMIC CHIP	47PFF	5%	25V
204	1 015 050 00		A 5	=0	4.14.0**	C122	1-163-093-11			5%	50V
R94 R95	1-216-059-00 1-216-059-00		2.7K 2.7K		1/10W 1/10W	C130 C131	1-216-295-00 1-163-224-11	METAL GLAZE CERAMIC CHIP	0 5%	0.25PI	10W
R96	1-216-059-00	METAL GLAZE	2.7K		1/10W 1/10W	C131	1-103-224-11	ELECT	47MF	20%	16V
R97	1-216-057-00	METAL GLAZE	2.2K		1/10W	0200					101
R98	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C161	1-164-117-00			5%	50V
R99	1 216 057 00	MEMAI CLAFE	2 22	E0	1 /1 014	C162	1-164-222-11				25V
R100	1-216-057-00 1-216-065-00		2.2K 4.7K		1/10W 1/10W	C163 C164	1-164-346-11	CERAMIC CHIP		5%	16V 50V
R102	1-216-065-00		4.7K		1/10W	C165	1-164-232-11			10%	50V
R103	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W						
R104	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C166	1-124-477-11		47MF	20%	16V
R105	1-216-033-00	METAL CLAZE	220	5%	1/10W	C167 C168		CERAMIC CHIP		5%	50V 16V
R121	1-216-073-00		10K	5%	1/10W	C170	1-124-477-11		47MF	20%	16V
R122	1-216-065-00		4.7K		1/10W	C171	1-124-477-11		47MF	20%	16V
R123	1-216-041-00		470	5%	1/10W	-4-0					
R124	1-216-041-00	METAL GLAZE	470	5%	1/10W	C173	1-124-477-11	ELECT	47MF	20%	16V
R125 R301	1-216-041-00 1-216-049-00		470 1K	5% 5%	1/10W 1/10W		< FII	TER >			
R302	1-216-049-00		1K	5%	1/10W	CD1	1-579-657-21	DISCRIMINATOR	R, CERAMIC		
R303	1-216-049-00	METAL GLAZE	1K	5%	1/10W						
R304	1-216-037-00	METAL GLAZE	330	5%	1/10W	CF1	1-567-569-11	FILTER, CERAN	MIC		
R305	1-216-049-00		1K	5%	1/10W	SWF1	1-579-659-11	FILTER, SAWTO	OOTH WAVE		
R306	1-216-025-00		100	5%	1/10W		***	NEGEO S			
R307 R308	1-216-037-00 1-216-037-00		330 330	5% 5%	1/10W 1/10W		< CON	NECTOR >			
						CN1		PIN, CONNECTO			
				,		CN2	1-750-173-11	PIN, CONNECTO	OR (PC BOARI	) 10P	

<b>      ( KV-S3432U )</b>	M2
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C   C   C   C   C   C   C   C   C   C	REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	<u> </u>	REMARK
1-409-133-00 TRAP, CERMIC (6.0MEZ)		< TRI	MMER >						
Range	CT1	1-409-333-00	TRAP, CERAMIC (6.0MHZ)		R104	1-216-051-00	METAL GLAZE	1.2K 5%	1/10W
10.11   8-719-400-18   DIODE NALSZAWE   1317   1-215-65-00   METAL GLAZE 4.7%   5%   1/10W   110   1-215-61-61-00   METAL GLAZE 1.0%   5%   1/10W   110   1-215-61-10-0   METAL GLAZE 1.0%   5%   1/10W   111   1-215-61-10-0   METAL GLAZE 1.0%   5%   1/10W   111   1-215-61-10-0   METAL GLAZE 1.0%   5%   1/10W   111   1-215-61-10-0   METAL GLAZE 1.0%   5%   1/10W   110   1-409-415-00   INDUCTOR 60UH   111   1-215-61-10-0   METAL GLAZE 1.0%   5%   1/10W   110   1-409-415-00   INDUCTOR 60UH   111   1-215-61-00   METAL GLAZE 1.0%   5%   1/10W   110   1-409-415-00   INDUCTOR 60UH   110   1-409-415-00   I		< DIC	DDE >		P106	1_216_049_00	METAL CLATE	1 K 5%	1/10ឃ
C1C   8-759-07-076   CC M523088P   R112   1-1216-041-00 MERAL GIAZE   870   5%   1/10W	D161	8-719-400-18	DIODE MA152WK		R107	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W
COL		< IC	>		R110	1-216-041-00	METAL GLAZE	470 5%	1/10W
COLL	IC1 IC3								
1-408-414-00   INDOCTOR   FOUR   File   Fi		< CO1	IL >		R115	1-216-031-00	METAL GLAZE	180 5%	1/10W
1408 - 419 - 00   INDUCTOR   680H   R118   1-216-107-00   METAL GLAZE   680K S   1/50W	L101								
1-408-400-00   INDUCTOR   5,6UH	L102 L103				R118	1-216-117-00	METAL GLAZE	680K 5%	1/10W
1-108-790-41   INDUCTOR   0.55UH	L104	1-408-406-00	INDUCTOR 5.6UH		R119	1-216-240-00	METAL GLAZE	56K 5%	1/8W
1-408-790-41   INDOCTOR   0.56UH	L105	1-408-410-00	INDUCTOR 12UH						
1-408-419-00   INDUCTOR   68UH	1.142	1-408-790-41	INDUCTOR 0.56UH						
RIGH   R-729-920-74   TRANSISTOR   SC2412K-OR   RIGH   R	L161				KIZZ	1 210 001 00	METAL CLINED	3.31 3.0	1/10/
RI31   1-216-035-00   METAL GLAZE   100   5%   1/10W									
1010		< TRA	ANSISTOR >						
1012   8-729-216-22   TRANSISTOR 28A1162-6	0101	8-729-920-74	TRANSISTOR 2SC2412K-OR						
161   8-729-216-22   TRANSISTOR 28C1412K-OR	Q102	8-729-216-22	TRANSISTOR 2SA1162-G						
172   8-729-920-74   TRANSISTOR 28C2412K-QR	Q122				-101	4 045 040 00		4	4 /4 0**
R153	Q161 0172								
173	QIIZ	0-123-320-14	TRANSISTOR 25C2412A-QA						
RESISTOR >  REAL 1-216-295-00 METAL GLAZE 0 5% 1/8W R162 1-216-073-00 METAL GLAZE 10K 5% 1/10W R163 1-216-13-00 METAL GLAZE 470K 5% 1/10W R165 1-216-03-00 METAL GLAZE 470K 5% 1/10W R165 1-216-03-00 METAL GLAZE 20K 5% 1/10W R165 1-216-03-00 METAL GLAZE 20K 5% 1/10W R165 1-216-03-00 METAL GLAZE 10K 5% 1/10W R10 1-216-296-00 METAL GLAZE 0 5% 1/8W R169 1-216-03-00 METAL GLAZE 10K 5% 1/10W R10 1-216-296-00 METAL GLAZE 0 5% 1/8W R169 1-216-03-00 METAL GLAZE 10K 5% 1/10W R11 1-216-296-00 METAL GLAZE 0 5% 1/8W R175 1-216-03-00 METAL GLAZE 10K 5% 1/10W R181 1-216-296-00 METAL GLAZE 0 5% 1/8W R175 1-216-03-00 METAL GLAZE 10K 5% 1/10W R181 1-216-296-00 METAL GLAZE 0 5% 1/8W R176 1-216-03-00 METAL GLAZE 10K 5% 1/10W R181 1-216-296-00 METAL GLAZE 0 5% 1/8W R176 1-216-03-00 METAL GLAZE 10K 5% 1/10W R181 1-216-296-00 METAL GLAZE 0 5% 1/10W R199 1-2	Q173	8-729-920-74	TRANSISTOR 2SC2412K-QR		R159	1-216-107-00	METAL GLAZE	270K 5%	1/10W
R1 1-216-296-00 METAL GLAZE 0 5% 1/8W R161 1-216-395-00 METAL GLAZE 10K 5% 1/10W R162 1-216-295-00 METAL GLAZE 0 5% 1/10W R163 1-216-113-00 METAL GLAZE 10K 5% 1/10W R164 1-216-295-00 METAL GLAZE 0 5% 1/10W R165 1-216-113-00 METAL GLAZE 470K 5% 1/10W R167 1-216-295-00 METAL GLAZE 0 5% 1/10W R168 1-216-295-00 METAL GLAZE 0 5% 1/10W R169 1-216-295-00 METAL GLAZE 0 5% 1/8W R169 1-216-296-00 METAL GLAZE 0 5% 1/8W R175 1-216-096-00 METAL GLAZE 0 5% 1/8W R176 1-216-296-00 METAL GLAZE 0 5% 1/8W R181 1-216-296-00 METAL GLAZE 0 5% 1/8W R181 1-216-296-00 METAL GLAZE 0 5% 1/8W R176 1-216-296-00 METAL GLAZE 0 5% 1/8W R181 1-216-296-00 METAL GLAZE 0 5% 1/8W R191 1-216-296-00 METAL GLAZE 0 5%		/ DEG	STOTOR \		R160	1-216-049-00	METAL GLAZE	1K 5%	1/10W
R2		\ KE	31310K >		R161	1-216-755-11	METAL CHIP	130K 0.5	0% 1/10W
R3	JR1								
R4			METAL GLAZE 0 5%						
R7	JR4								
R8	JR7								
R9	TD 0	1 016 005 00	ADD 0 50.	4 /4 022					
RIO 1-216-296-00 METAL GLAZE 0 5% 1/8W R175 1-216-083-00 METAL GLAZE 1K 5% 1/10W R12 1-216-296-00 METAL GLAZE 0 5% 1/8W R175 1-216-083-00 METAL GLAZE 27K 5% 1/10W R13 1-163-093-00 CERAMIC CHIP 10PF 5% 50V R177 1-216-095-00 METAL GLAZE 1ZK 5% 1/10W R14 1-216-295-00 METAL GLAZE 0 5% 1/8W R178 1-216-059-00 METAL GLAZE 2.7K 5% 1/10W R18 1-216-295-00 METAL GLAZE 0 5% 1/8W CVARIABLE RESISTOR >  R20 1-216-296-00 METAL GLAZE 0 5% 1/8W R181 1-216-296-00 METAL GLAZE 0 5% 1/8W CVARIABLE RESISTOR >  R21 1-216-296-00 METAL GLAZE 0 5% 1/8W RV1 1-241-121-11 RES, ADJ, CARBON 4.7K R23 1-216-296-00 METAL GLAZE 0 5% 1/8W CTRANSFORMER >  R22 1-216-296-00 METAL GLAZE 0 5% 1/8W T4 1-416-017-21 COIL  R33 1-216-295-00 METAL GLAZE 0 5% 1/8W T4 1-416-017-21 COIL  R33 1-216-295-00 METAL GLAZE 0 5% 1/8W T4 1-416-018-21 COIL  R34 1-216-296-00 METAL GLAZE 0 5% 1/8W T4 1-416-018-21 COIL  R35 1-216-296-00 METAL GLAZE 0 5% 1/8W T4 1-416-018-21 COIL  R36 1-216-295-00 METAL GLAZE 0 5% 1/8W T4 1-416-018-21 COIL  R37 1-216-296-00 METAL GLAZE 0 5% 1/8W T4 1-416-018-21 COIL  R38 1-216-296-00 METAL GLAZE 0 5% 1/8W T4 1-416-018-21 COIL  R39 1-216-296-00 METAL GLAZE 0 5% 1/8W T4 1-416-018-21 COIL  R40 1-216-296-00 METAL GLAZE 0 5% 1/8W T4 1-416-018-21 COIL  R40 1-216-295-00 METAL GLAZE 0 5% 1/8W T4 1-416-018-21 COIL  R40 1-216-295-00 METAL GLAZE 0 5% 1/8W T4 1-416-018-21 COIL  R41 1-216-295-00 METAL GLAZE 0 5% 1/8W T4 1-416-018-21 COIL  R42 1-216-295-00 METAL GLAZE 0 5% 1/8W T4 1-416-018-21 COIL  R53 1-216-295-00 METAL GLAZE 0 5% 1/8W T4 1-416-018-21 COIL  R54 1-416-018-21 COIL  R55 1-416-018-21 COIL  R57 1-416-018-21 COIL  R58 1-216-295-00 METAL GLAZE 0 5% 1/10W T5	JR8 JR9								
R11	JR10								
R13	JR11			1/8W	R175	1-216-083-00		27K 5%	1/10W
R13	JR12	1-216-296-00	METAL GLAZE 0 5%	1/8W	D176	1_216_075_00	METAL CLATE	10¥ 5%	1 /1 OW
R14 1-216-296-00 METAL GLAZE 0 5% 1/8W R178 1-216-059-00 METAL GLAZE 2.7K 5% 1/10W R16 1-216-295-00 METAL GLAZE 0 5% 1/10W R179 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W R181 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W R19 1-216-296-00 METAL GLAZE 0 5% 1/8W   R20 1-216-296-00 METAL GLAZE 0 5% 1/8W R21 1-216-296-00 METAL GLAZE 0 5% 1/8W R21 1-216-296-00 METAL GLAZE 0 5% 1/8W R21 1-216-296-00 METAL GLAZE 0 5% 1/8W R23 1-216-296-00 METAL GLAZE 0 5% 1/8W R24 1-216-296-00 METAL GLAZE 0 5% 1/8W R25 1-216-296-00 METAL GLAZE 0 5% 1/8W R25 1-216-296-00 METAL GLAZE 0 5% 1/8W R25 1-216-296-00 METAL GLAZE 0 5% 1/10W R33 1-216-295-00 METAL GLAZE 0 5% 1/10W R33 1-216-295-00 METAL GLAZE 0 5% 1/8W R39 1-216-296-00 METAL GLAZE 0 5% 1/8	JR13	1-163-093-00	CERAMIC CHIP 10PF	5% 50V					
R18	JR14					1-216-059-00	METAL GLAZE		
R19	JR16								
R20	JR18 JR19				KISI	1-216-037-00	METAL GLAZE	330 5%	1/10W
R21 1-216-296-00 METAL GLAZE 0 5% 1/8W R23 1-216-296-00 METAL GLAZE 0 5% 1/8W T24 1-216-296-00 METAL GLAZE 0 5% 1/8W T4 1-416-017-21 COIL  R29 1-216-296-00 METAL GLAZE 0 5% 1/8W T5 1-416-018-21 COIL  R30 1-216-295-00 METAL GLAZE 0 5% 1/10W T5 1-416-018-21 COIL  R33 1-216-295-00 METAL GLAZE 0 5% 1/10W T5 1-416-018-21 COIL  R38 1-216-295-00 METAL GLAZE 0 5% 1/8W T5 1-416-018-21 COIL  R40 1-216-296-00 METAL GLAZE 0 5% 1/8W TA-1635-020-A M2 BOARD, COMPLETE  **********************************	TD O O	1 016 006 00				< VAF	RIABLE RESISTOR	>	
R23	JR2U JR21				RV1	1-241-121-11	RES, ADJ, CARE	30N 4.7K	
R25	JR23	1-216-296-00	METAL GLAZE 0 5%				Vanonum		
R29	JR25					< TRA	INSFORMER >		
R30 1-216-295-00 METAL GLAZE 0 5% 1/10W R33 1-216-295-00 METAL GLAZE 0 5% 1/10W R38 1-216-296-00 METAL GLAZE 0 5% 1/8W R39 1-216-296-00 METAL GLAZE 0 5% 1/8W R40 1-216-296-00 METAL GLAZE 0 5% 1/8W R41 1-216-295-00 METAL GLAZE 0 5% 1/10W R42 1-216-295-00 METAL GLAZE 0 5% 1/10W R101 1-216-295-00 METAL GLAZE 0 5% 1/10W R101 1-216-295-00 METAL GLAZE 0 5% 1/10W R101 1-216-295-00 METAL GLAZE 0 5% 1/10W C001 1-163-117-00 CERAMIC CHIP 100PF 5% 50V C004 1-164-222-11 CERAMIC CHIP 0.22MF 25V	JR29	1-216-296-00	METAL CLATE 0 5%	1 / QW					
R38 1-216-296-00 METAL GLAZE 0 5% 1/8W  R39 1-216-296-00 METAL GLAZE 0 5% 1/8W  R40 1-216-296-00 METAL GLAZE 0 5% 1/8W  R41 1-216-295-00 METAL GLAZE 0 5% 1/10W  R42 1-216-295-00 METAL GLAZE 0 5% 1/10W  R101 1-216-295-00 METAL GLAZE 0 5% 1/10W  R101 1-216-295-00 METAL GLAZE 0 5% 1/10W  R101 1-216-295-00 METAL GLAZE 0 5% 1/10W  C001 1-163-117-00 CERAMIC CHIP 100PF 5% 50V  C004 1-164-222-11 CERAMIC CHIP 0.22MF 25V	JR30	1-216-295-00	METAL GLAZE 0 5%	1/10W					
R39 1-216-296-00 METAL GLAZE 0 5% 1/8W *A-1635-020-A M2 BOARD, COMPLETE ***********************************	JR33				******	*******	******	******	*********
R40 1-216-296-00 METAL GLAZE 0 5% 1/8W R41 1-216-295-00 METAL GLAZE 0 5% 1/10W	JR38 JR39					*A-1635-020-A			
R42 1-216-295-00 METAL GLAZE 0 5% 1/10W R101 1-216-295-00 METAL GLAZE 0 5% 1/10W C001 1-163-117-00 CERAMIC CHIP 100PF 5% 50V C004 1-164-222-11 CERAMIC CHIP 0.22MF 25V	JR40						о в в в в в в в в в в в в в в в в в в		
R101 1-216-295-00 METAL GLAZE 0 5% 1/10W C001 1-163-117-00 CERAMIC CHIP 100PF 5% 50V C004 1-164-222-11 CERAMIC CHIP 0.22MF 25V	JR41					< CAF	PACITOR >		
C004 1-164-222-11 CERAMIC CHIP 0.22MF 25V	JR42 JR101				C001	1-163-117-00	CERAMIC CUID 1	በበቦም	5% 5037
1-216-075-00 METAL GLAZE 12K 5% 1/10W C007 1-163-117-00 CERAMIC CHIP 100PF 5% 50V					C004	1-164-222-11	CERAMIC CHIP 0	.22MF	25V
	R101	1-216-075-00	METAL GLAZE 12K 5%	1/10W	C007	1-163-117-00	CERAMIC CHIP 1	.00PF	5% 50 <b>V</b>



1 4 1 2	-												- No.
REF.NO.	PART NO.	DESCRIPTION	1		REM	ARK	REF.NO.	PART NO.	DESCRIPTION	ON			REMARK
R016 R017 R018 R020	1-216-045-00 1-216-049-00 1-216-041-00 1-216-049-00		680 1K 470 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R2017 R2018 R2019 R2020	1-216-081-00 1-216-081-00 1-216-081-00 1-216-057-00	METAL GLAZE METAL GLAZE	22K 22K 22K 2.2K	5% 5% 5% 5%	1/10V 1/10V 1/10V 1/10V	I I
R021 R025 R026 R027 R028	1-216-065-00 1-216-049-00 1-216-049-00 1-216-049-00 1-216-677-11	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 1K 1K 1K 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R2021 R2022 R2023 R2025 R2026	1-216-057-00 1-216-033-00 1-216-025-00 1-216-063-00 1-216-065-00	METAL GLAZE METAL GLAZE	2.2K 220 100 3.9K 4.7K	5% 5% 5% 5%	1/10V 1/10V 1/10V 1/10V 1/10V	] ] ]
R030 R032 R033 R034 R035	1-216-049-00 1-216-049-00 1-216-049-00 1-216-057-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 1K 2.2K 2.2K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R2030 R2032 R2033 R2036 R2037	1-216-295-91 1-216-049-00 1-216-295-91 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 1K 0 1K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	] ]
R038 R049 R050 R051 R052	1-216-073-00 1-216-049-00 1-216-073-00 1-216-081-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 1K 10K 22K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R2039 R2040	1-216-041-00 1-216-055-00 < CRY		470 1.8K	5% 5%	1/10W 1/10W	
							X2001	1-579-965-21	VIBRATOR, CR	YSTAL			
R053 R054	1-216-065-00 1-216-081-00	METAL GLAZE	4.7K 22K 22K	5% 5% 5%	1/10W 1/10W 1/10W		******	*******	******	*****	****	******	*****
R055 R067 R068	1-216-081-00 1-216-043-00 1-216-043-00	METAL GLAZE	560 560	5% 5% 5%	1/10W 1/10W 1/10W		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*A-1638-033-A	C BOARD, COM				
R069 R071		METAL GLAZE METAL GLAZE	330 1K	5% 5%	1/10W 1/8W		10 July 10 Jul	< CAF	PACITOR >				
R535 R536 R538		METAL GLAZE METAL GLAZE	2.2K 2.2K 100		1/10W 1/10W 1/10W		C701 C703 C705 C708	1-162-114-00 1-123-946-00 1-162-116-00 1-163-197-00	ELECT CERAMIC	0.0047 4.7MF 680PF 470PF	MF	20% 10% 10%	2KV 250V 2KV 50V
R539 R541 R542	1-216-657-11 1-216-049-00 1-216-025-00		1.8K 1K 100	0.50% 5% 5%	1/10W 1/10W 1/10W		C709 C710	1-163-005-11 1-163-005-11	CERAMIC CHIP	470PF 470PF		10% 10%	50V 50V
R544 R545 R546	1-216-085-00 1-216-033-00	METAL GLAZE	33K 220	5% 5%	1/10W 1/10W 1/10W		C711 C712 C713 C714	1-101-880-00 1-163-121-00 1-163-121-00 1-163-121-00		150PF		5% 5% 5% 5%	50V 50V 50V 50V
R547 R551 R552	1-216-651-11 1-216-049-00 1-216-097-00	METAL GLAZE METAL GLAZE	3.3K 1K 1K 100K	0.50% 5% 5%	1/10W 1/10W 1/10W		C714	1-124-478-11	ELECT	100MF		20%	25V
R553	1-216-085-00	METAL GLAZE	33K	5%	1/10W			< CON	INECTOR >				
R559 R560 R564 R565	1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 10K 56K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		CN0002 CN0403 CN0421	1-508-786-00 1-564-511-11 1-508-768-00	PLUG, CONNEC	TOR 8P			
R566	1-216-073-00	METAL GLAZE	10K	5%	1/10W			< DIC	DE >				
R567 R568 R570 R2001 R2002	1-216-085-00 1-216-109-00 1-216-049-00 1-216-065-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE	33K 330K 1K 4.7K 560	5%	1/10W 1/10W 1/10W 1/10W 1/10W		D701 D702 D703 D704 D705	8-719-901-33 8-719-901-33 8-719-901-33	DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 DIODE 1SS133				
R2003 R2004 R2005 R2007 R2008	1-216-037-00		4.7K 330 470 10K 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		D706 D707 D708 D709 D710		DIODE 1SS133 DIODE 1SS133				
R2009		METAL GLAZE	2.2K		1/10W		D713	8-719-908-03	DIODE GP08D				
R2010 R2011		METAL GLAZE	100 2.2K	5% 5%	1/10W 1/10W			< CRT	SOCKET >				
R2012 R2013	1-216-029-00		150 150	5% 5%	1/10W 1/10W		J701 <u>4</u>	1-540-223-11					
R2014		METAL GLAZE	150	5%	1/10W		4,64,3316243	······································					- MANAGEMENT PARTIES



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	R	EMAF
C008 C010	1-163-117-00 1-163-117-00		5% 5%	50V 50V		< FI	LTER >		
C011	1-163-117-00		5%	50V	CD001	1-579-126-11	VIBRATOR, CERAMIC		
C012 C014		CERAMIC CHIP 100PF	5% 5%	50V 50V			NNECTOR >		
C016 C017	1-164-222-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.22MF	5%	50V 25V	CN1413 CN1426 CN1432	*1-568-881-51 *1-568-882-51	CONNECTOR, BOARD TO BOA PIN, CONNECTOR 6P PIN, CONNECTOR 7P	ARD 40P	
C018 C019	1-164-505-11 1-124-916-11	ELECT 22MF	20%	16V 50V	CN1435	*1-564-508-11	PLUG, CONNECTOR 5P		
C020		CERAMIC CHIP 100PF	5%	50V		< DIC	DDE >		
C022 C023	1-164-004-11		10%	25V	2001	0 510 005 00	DTARE 341 242 AV.		
		CERAMIC CHIP 0.1MF	10%	25V	D001 D2001	8-719-036-58			
C024 C025		CERAMIC CHIP 0.1MF CERAMIC CHIP 0.22MF	10%	25V	D2003		DIODE DAP202K		
C025		CERAMIC CHIP 0.22MF		25V 25V	D2007	8-/19-914-44	DIODE DAP202K		
C032		CERAMIC CHIP 100PF	5%	50V		< IC	>		
C035	1-163-033-00	CERAMIC CHIP 0.022MF		50V	TC001				
C036	1-164-005-11	CERAMIC CHIP 0.47MF		25V	IC001 IC002	8-759-168-52 8-759-167-62			
C037	1-163-117-00	CERAMIC CHIP 100PF	5%	50V		1-750-797-11	SOCKET, PLCC (IC002)		
C039		CERAMIC CHIP 0.0015MF	10%	50V	IC561	8-752-347-92			
C042 C044	1-162-638-11	CERAMIC CHIP 1MF CERAMIC CHIP 100PF	5%	16V 50V	IC562	8-759-998-98	IC LM358D		
0011			3.0	304	IC563	8-759-708-05	IC NJM78L05A		
C522		CERAMIC CHIP 0.001MF	5%	50V	IC2002	8-759-262-58	IC SDA5273P-C22-GEG		
C523 C524	1-163-141-00	CERAMIC CHIP 0.001MF CERAMIC CHIP 68PF	5% 5%	50V		. 001			
C525	1-164-222-11		3%	50V 25V		< CO1	·μ >		
C528		CERAMIC CHIP 33PF	5%	50V	L001	1-408-421-00	INDUCTOR 100UH		
a=00	1 160 160 00	0771174 QUIT 0077			L561	1-408-409-00	INDUCTOR 10UH		
C529 C541	1-163-169-00	CERAMIC CHIP 33PF CERAMIC CHIP 0.01MF	5% 10%	50V 50V	L562 L563	1-408-409-00	INDUCTOR 10UH		
C542		CERAMIC CHIP 0.01MF	10%	25V	L2001	1-408-947-00 1-410-674-31	INDUCTOR 2.2MMH INDUCTOR 82UH		
C543		CERAMIC CHIP 0.0022MF	10%	50V	22001	1 110 0/1 51	IMBOCION OZOII		
C544	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V		< TRA	NSISTOR >		
C546		CERAMIC CHIP 0.1MF	10%	25V	Q002	8-729-216-22	TRANSISTOR 2SA1162-G		
C547 C549		CERAMIC CHIP 0.0082MF	10%	50V	Q003	8-729-920-74	TRANSISTOR 2SC2412K-QR		
C549		CERAMIC CHIP 0.033MF CERAMIC CHIP 0.001MF	10% 5%	25V 50V	Q564 Q565	8-729-216-22 8-729-920-74	TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR		
C559		CERAMIC CHIP 0.1MF	10%	25V	Q566	8-729-920-74	TRANSISTOR 2SC2412K-QR		
C560	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V	Q567	8-729-901-01	TRANSISTOR DTC144EK		
C563	1-163-031-11	CERAMIC CHIP 0.01MF		50V	Q2001	8-729-920-74	TRANSISTOR 2SC2412K-QR		
C564 C565		CERAMIC CHIP 0.01MF		50V	Q2002	8-729-920-74	TRANSISTOR 2SC2412K-QR		
C566		CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF		50V 50V	Q2003 Q2004	8-729-216-22 8-729-920-74	TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR		
			4.00						
C567 C568		CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	10% 10%	50V 50V	Q2005 Q2006	8-729-920-74 8-729-901-01	TRANSISTOR 2SC2412K-QR TRANSISTOR DTC144EK		
C569		CERAMIC CHIP 0.0022MF	10%	50V	Q2008	8-729-901-00		6	
C570	1-162-568-11	CERAMIC CHIP 0.33MF	10%	16V	<b>A</b> =			•	
C2001	1-163-235-11	CERAMIC CHIP 22PF	5%	50V		< RES	ISTOR >		
C2002		CERAMIC CHIP 22PF	5%	50V	JR553	1-216-295-91	METAL GLAZE 0 5%	1/10W	
C2004 C2005		CERAMIC CHIP 0.22MF CERAMIC CHIP 0.1MF		25V 25V	D001	1-216-025-00	NUMBER OF SERVICE	1/10W	
C2008		CERAMIC CHIP 0.1MF		25V 25V	R001 R002	1-216-025-00	METAL GLAZE 100 5% METAL GLAZE 100 5%	1/10W 1/10W	
C2016		CERAMIC CHIP 0.22MF		25V	R003	1-216-049-00		1/10W	
00017	1 404 444 41				R004	1-216-049-00	METAL GLAZE 1K 5%	1/10W	
C2017 C2018		CERAMIC CHIP 0.22MF CERAMIC CHIP 2.2MF		25V 16V	R005	1-216-295-91	METAL GLAZE 0 5%	1/10W	
C2019	1-104-305-11		20%	50V	R007	1-216-073-00	METAL GLAZE 10K 5%	1/10W	
C2020	1-164-222-11	CERAMIC CHIP 0.22MF		25V	R008	1-216-049-00	METAL GLAZE 1K 5%	1/10W	
C2021	1-163-113-00	CERAMIC CHIP 68PF	5%	50V	R010	1-216-049-00	METAL GLAZE 1K 5%	1/10W	
C2024	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	R011 R012	1-216-049-00 1-216-049-00		1/10W 1/10W	
C2025	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	MULZ	1-210-043-00	METAL GLAZE 1K 5%	1/10M	
C2027		CERAMIC CHIP 0.22MF		25V	R014	1-216-049-00	METAL GLAZE 1K 5%	1/10W	





											<u> </u>
REF.NO.	PART NO.	DESCRIPTIO	N	REMARK	REF.NO.	PART NO.	DESCRIPTIO	N			REMARK
		-						_			
	< COI	:L >			R742 R743	1-216-029-00 1-249-434-11		150 27K	5% 5%	1/10	
L701	1-410-667-31	TMINITOTION	22UH		R747	1-216-489-11		27K	5%	1/4W 3W	F
L703	1-408-609-41		33UH		R749	1-216-490-11		39K	5%	3W	F
L705	1-408-609-41		33UH		R751	1-215-926-00		33K	5%	3W	F
L707	1-408-609-41		33UH								
					R753	1-216-073-00		10K	5%	1/10	
	< TRA	NSISTOR >			R755	1-216-065-00		4.7K		1/10	
0701	0 700 006 70	mnangramon n	5071		R756 R757	1-216-065-00 1-216-065-00		4.7K 4.7K		1/10 <sup>1</sup> 1/10 <sup>1</sup>	
Q701 Q702		TRANSISTOR B			R758	1-249-419-11		1.5K		1/4W	
0702		TRANSISTOR B			K/30	1 247 417 11	CANDON	1.31	3.0	1/311	
Q704		TRANSISTOR B			R759	1-249-419-11	CARBON	1.5K	5%	1/4W	
Q705	8-729-906-70	TRANSISTOR B	F871		R760	1-249-419-11	CARBON	1.5K	5%	1/4W	
Q706		TRANSISTOR B				< VAR	IABLE RESISTOR	<b>?</b> >			
Q707 Q708	8-729-200-17	TRANSISTOR 2:			RV701	1_230_6/1_11	RES, ADJ, ME	ጥል፣. ር፣ል፡	7F 2	2M	
Q709	8-729-200-17				RV701	1-241-714-11	RES, ADJ, ME	TAL FIL	M 110	M	
Q710		TRANSISTOR 2			1.17.02		11107 11107 1111				
•			-		******	*********	******	*****	****	*****	*****
Q711		TRANSISTOR 2									
Q712		TRANSISTOR 2				*A-1640-098-A	D1 BOARD, COI	MPLETE			
Q713		TRANSISTOR 2					******	*****			
Q714	8-729-255-12	TRANSISTOR 2	SC2551-0			1-382-851-11	SCREW (M3X10	) p g	W (+)		
	∠ RES	SISTOR >				4-302-034-11	SCREW (MOXIO	) , E , D	n (T)		
	\ ALDE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				< CAF	PACITOR >				
JR701	1-216-296-91	METAL GLAZE	0 5%	1/8W							
JR703	1-216-296-91	METAL GLAZE	0 5%	1/8W	C1601	1-124-903-11		1MF		20%	50V
			600m 400	4.40	C1602	1-136-177-00		1MF		5%	50V
R701	1-202-848-00 1-202-838-00		680K 10% 100K 20%		C1603 C1605	1-130-772-00 1-126-320-11		0.22MF 10MF		5% 20%	63V 16V
R702 R703	1-202-838-00		100K 20% 47K 20%		C1605	1-124-477-11		47MF		20%	25V
R704	1-202-842-11		220K 10%		01000	1 101 1// 11	DDDCI	4 / 111		200	231
R705	1-216-367-11		0.68 5%	2W F	C1607	1-124-902-00	ELECT	0.47MF		20%	50V
					C1608	1-102-112-00		330PF		10%	50V
R707	1-249-421-11		2.2K 5%	1/4W	C1610	1-106-391-12		0.1MF		5%	200V
R708	1-249-421-11		2.2K 5%	1/4W	C1611	1-124-903-11		1MF	-	20%	50V
R709 R710	1-249-421-11 1-215-899-11		2.2K 5% 15K 5%	1/4W 2W F	C1614	1-137-371-11	LIDM	0.015M	r.	5%	50V
R711	1-202-820-11		1.5K 20%		C1615	1-124-903-11	ELECT	1MF		20%	50V
	1 200 020 11	50225	1,01.	-/	C1617	1-129-702-00		0.001M	F	10%	400V
R712	1-215-899-11	METAL OXIDE	15K 5%	2W F	C1618	1-102-074-00		0.001M		10%	50V
R713	1-202-820-11		1.5K 20%		C1620	1-136-601-11		0.01MF		5%	630V
R714	1-215-899-11			2W F	C1622	1-124-478-11	ELECT	100MF		20%	25V
R715 R716	1-202-820-11 1-247-700-11		1.5K 20% 100 5%	1/2W 1/4W F	C1623	1-129-702-00	PTIM	0.001M		10%	400V
K/IO	1-24/-/00-11	CARDON	100 3%	I/AM L	C1625	1-126-320-11		10MF	r	20%	16V
R717	1-249-405-11	CARBON	100 5%	1/4W F	C1626	1-130-777-00		0.1MF		5%	63V
R718	1-247-700-11		100 5%	1/4W F	C1627	1-136-173-00	FILM	0.47MF		5%	50V
R720	1-249-417-11		1K 5%	1/4W F	C1628	1-124-907-11	ELECT	10MF		20%	50V
R722	1-247-713-11		1K 5%	1/4W F	71.500	1 126 550 11		0 00477		1.00	C20**
R724	1-249-417-11	CARBON	1K 5%	1/4W F	C1629 C1630	1-136-559-11 1-102-244-00		0.00471 220PF	ni.	10% 10%	630V 500V
R725	1-216-067-00	METAL GLAZE	5.6K 5%	1/10W	C1631	1-102-244-00		10MF		20%	500V
R726	1-216-067-00		5.6K 5%	1/10W	C1633	1-124-907-11		10MF		20%	50V
R727	1-216-067-00		5.6K 5%	1/10W	C1634	1-136-559-11		0.00471	MF	10%	400V
R728	1-216-037-00	METAL GLAZE	330 5%	1/10W						4.5-	
R729	1-216-037-00	METAL GLAZE	330 5%	1/10W	C1635	1-136-205-11		0.022M		10%	400V
R730	1_016 007 00	MEMAT OF SEE	330 50	1 /1 OW	C1637 C1680	1-129-702-00 1-124-797-11		0.001MI 0.47MF		10% 20%	400V 160V
R731	1-216-037-00 1-216-017-00		330 5% 47 5%	1/10W 1/10W	C1680	1-124-797-11		0.4/MF 0.001MI		10%	630V
R732	1-216-017-00		47 5%	1/10W	C1684	1-137-366-11		0.00221		5%	50V
R733	1-216-017-00		47 5%	1/10W	3-10.						
R734	1-202-549-00		100 20%	·	C1690	1-123-947-00		10MF		20%	160V
D725	1 0		4 ***	4 /4 0	C1801	1-124-477-11		47MF		20%	25V
R735 R738	1-216-049-00		1K 5%	1/10W	C1802	1-124-477-11		47MF 0.01MF		20% 5%	25V
R738 R739	1-216-025-00 1-216-025-00		100 5% 100 5%	1/10W 1/10W	C1803 C1804	1-137-370-11 1-137-370-11		0.01MF 0.01MF		5% 5%	50V 50V
R740	1-216-025-00		100 5%	1/10W 1/10W	C1004	1-131-310-11	rinel	O. OIM		J-0	201
R741	1-216-089-91		47K 5%	1/10W	C1805	1-130-777-00	FILM	0.1MF		5%	63V
					1						



REF.NO.	PART NO.	DESCRIPT	ION		REMARK	REF.NO.	PART NO.	DESCRIPTION	<u>N</u>		RI	EMARK
C1806 C1807 C1809 C1810	1-130-777-00 1-124-360-00 1-136-104-00 1-136-177-00	ELECT FILM	0.1MF 1000MF 0.16MF 1MF	5% 20% 5% 5%	63V 16V 200V 50V	L1802	< TRA	COIL, HCC DUS				
C1811 C1812 C1813 C1814 C1815	1-162-318-11 1-124-927-11 1-106-383-00 1-124-907-11 1-124-907-11	ELECT MYLAR ELECT	0.001MF 4.7MF 0.047MF 10MF 10MF	10% 20% 10% 20% 20%	500V 50V 100V 50V 50V	Q1601 Q1602 Q1603 Q1604 Q1605	8-729-119-78 8-729-119-78 8-729-173-38 8-729-173-38	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2785- SC2785- SA733-K SA733-K	HFE HFE		
C1816 C1817 C1818 C1819 C1820	1-124-916-11 1-124-927-11 1-124-477-11 1-130-777-00 1-126-103-11	ELECT ELECT FILM	22MF 4.7MF 47MF 0.1MF 470MF	20% 20% 20% 5% 20%	50V 50V 25V 63V 16V	Q1606 Q1607 Q1608 Q1609 Q1610	8-729-119-80 8-729-140-97 8-729-140-96 8-729-119-78	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2688- SB734-3 SD774-3 SC2785-	LK 4 4 HFE		
C1822	1-136-559-11		0.0047MF	10%	400V	Q1611 Q1612 Q1613	8-729-173-38 8-729-931-45	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR I	SA733-K RF614			
ava can		NNECTOR >	t-			Q1614 Q1615		TRANSISTOR 2				
CN0607 CN0622 CN0630 CY1	*1-568-879-11 *1-564-512-11 *1-568-878-51 1-508-765-00	PIN, CONNEC	TOR 4P CTOR 9P TOR 3P TOR (5MM PIT	СН) ЗР		Q1616 Q1617 Q1618 Q1802	8-729-119-78 8-729-119-78 8-729-173-38	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2785- SC2785- SA733-K	HFE HFE		
	< DIC	ODE >				Q1803		TRANSISTOR 2				
D1601 D1602 D1603 D1605 D1606	8-719-901-33 8-719-109-97 8-719-302-43 8-719-901-33 8-719-980-78	DIODE 1SS13 DIODE RD6.8 DIODE EL1Z DIODE 1SS13 DIODE ERA83	3 ESB2 3 -006			Q1804 Q1805 Q1806 Q1807 Q1808	8-729-177-22 8-729-119-78 8-729-140-93	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SB772-Q SC2785- SB733-3	HFE 4		
D1607 D1608 D1611 D1612 D1613	8-719-901-33 8-719-980-78 8-719-901-33 8-719-970-87 8-719-109-89	DIODE 1SS13 DIODE ERA83 DIODE 1SS13 DIODE ERA38 DIODE RD5.6	3 -006 3 -06 ESB2			Q1809 Q1810 Q1811 Q1812 Q1813	8-729-140-96 8-729-119-78 8-729-119-78	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SD774-3 SC2785- SC2785-	HFE HFE		
D1614 D1680	8-719-901-33 8-719-970-87						< RES	ISTOR >				
D1801 D1802 D1804	8-719-970-87 8-719-980-78 8-719-901-33 8-719-901-33	DIODE ERA83 DIODE 1SS13	-006 3			JR1 JR2		METAL GLAZE	0	5% 5%	1/10W 1/8W	
D1805 D1806 D1807 D1808 D1809	8-719-980-78 8-719-980-78 8-719-901-33	DIODE ERA83 DIODE ERA83 DIODE 1SS13	-006 -006 3			R1601 R1602 R1603 R1604 R1605	1-216-061-00 1-249-433-11 1-216-073-00 1-249-429-11 1-216-081-00	CARBON METAL GLAZE CARBON		5% 5%	1/10W 1/4W 1/10W 1/4W 1/10W	
D1810 D1811 D1812	8-719-901-33 8-719-901-33 8-719-302-43 8-719-901-33	DIODE 1SS13: DIODE EL1Z	3			R1606 R1607 R1608 R1609 R1610	1-249-425-11 1-249-436-11 1-216-685-11 1-216-693-11 1-216-687-11	CARBON METAL CHIP METAL CHIP	4.7K 39K 27K 56K 33K		1/10W	
	< IC	>				R1611	1-218-758-11	METAL CHIP	180K	0.50%	1/10W	
IC1601 IC1603 IC1604 IC1801 IC1802	8-759-135-80 8-759-103-93 8-759-103-93 8-749-920-58 8-752-052-88	IC UPC393C IC UPC393C IC SI-3090C				R1612 R1613 R1615 R1616	1-249-425-11 1-249-425-11 1-249-424-11 1-216-057-00	CARBON CARBON CARBON METAL GLAZE	4.7K 4.7K 3.9K 2.2K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/10W	
IC1803	8-759-135-80					R1617 R1619	1-216-081-00 1-216-085-00	METAL GLAZE	22K 33K		1/10W 1/10W	
	< CO1	IL >					1-249-419-11 1-215-876-00 1-215-870-11	METAL OXIDE	1.5K 15K 1.5K	5%	1/4W 1W F 1W F	
L1601 L1602 L1607 L1801	1-410-093-11 1-459-075-00 1-406-676-11 1-412-539-41	COIL, DYNAMIC		CHOKE		R1624 R1625 R1626	1-216-061-00 1-249-430-11 1-249-409-11	CARBON	3.3K 12K 220	5%	1/10W 1/4W 1/4W	





REF.NO.	PART NO.	DESCRIPTIO	N		REMARK	REF.NO.	PART NO.	DESCRIPTIO	IN .		REMARK
R1627 R1628	1-249-415-11 1-216-057-00	CARBON METAL GLAZE	680 2.2K	5% 5%	1/4W 1/10W	R1821 R1822	1-216-379-11 1-249-423-11	METAL OXIDE CARBON	6.8 5% 3.3K 5%		F
R1629 R1630 R1631 R1633 R1634	1-249-429-11 1-249-433-11 1-216-057-00 1-249-421-11 1-216-093-00	CARBON CARBON METAL GLAZE CARBON METAL GLAZE	10K 22K 2.2K 2.2K 68K	5% 5% 5% 5%	1/4W 1/4W 1/10W 1/4W 1/10W	R1824 R1825 R1826 R1827 R1828	1-249-417-11 1-215-857-11 1-249-404-00 1-215-875-11 1-249-441-11	METAL OXIDE CARBON	1K 5% 10 5% 82 5% 10K 5% 100K 5%	1W 1/4W 1W	F F
R1635 R1636 R1637 R1638 R1639	1-216-073-00 1-216-073-00 1-216-057-00 1-247-807-31 1-249-405-11	METAL GLAZE METAL GLAZE METAL GLAZE CARBON CARBON	10K 10K 2.2K 100 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/4W 1/4W F	R1829 R1830 R1831 R1832 R1833	1-249-414-11 1-249-411-11 1-249-426-11 1-215-864-00 1-249-421-11	CARBON CARBON CARBON METAL OXIDE CARBON	560 5% 330 5% 5.6K 5% 150 5% 2.2K 5%	1/4W 1/4W 1W	F
R1640 R1641 R1644 R1645 R1646	1-249-405-11 1-247-807-31 1-216-081-00 1-216-113-00 1-216-065-00	CARBON CARBON METAL GLAZE METAL GLAZE METAL GLAZE	100 100 22K 470K 4.7K	5% 5% 5% 5%	1/4W F 1/4W 1/10W 1/10W 1/10W	R1834 R1835 R1836 R1837 R1838	1-216-081-00 1-249-393-11 1-249-435-11 1-249-435-11 1-216-379-11	METAL GLAZE CARBON CARBON CARBON METAL OXIDE	22K 5% 10 5% 33K 5% 33K 5% 6.8 5%	1/4W 1/4W 1/4W	F
R1647 R1648 R1650 R1652 R1653	1-216-067-00 1-249-435-11 1-249-425-11 1-216-025-00 1-216-107-00	METAL GLAZE CARBON CARBON METAL GLAZE METAL GLAZE	5.6K 33K 4.7K 100 270K	5% 5% 5% 5%	1/10W 1/4W 1/4W 1/10W 1/10W	R1839 R1840 R1841 R1842 R1843	1-249-410-11 1-249-429-11 1-249-437-11 1-249-429-11 1-249-421-11	CARBON CARBON CARBON CARBON CARBON	270 5% 10K 5% 47K 5% 10K 5% 2.2K 5%	1/4W 1/4W 1/4W	
R1654 R1655 R1656 R1657 R1658	1-247-889-00 1-215-876-00 1-249-413-11 1-249-393-11 1-249-437-11	CARBON METAL OXIDE CARBON CARBON CARBON	270K 15K 470 10 47K	5% 5% 5% 5%	1/4W F 1/4W F 1/4W F 1/4W	R1846 R1847 R1848 R1849 R1850	1-249-429-11 1-216-065-00 1-249-429-11 1-216-065-00 1-249-415-11	CARBON METAL GLAZE CARBON METAL GLAZE CARBON	10K 5% 4.7K 5% 10K 5% 4.7K 5% 680 5%	1/10W 1/4W 1/10W	
R1659 R1660 R1661 R1662 R1664	1-216-295-91 1-216-089-91 1-216-073-00 1-216-097-00 1-249-412-11		0 47K 10K 100K 390	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/4W F	*****	*A-1640-113-A		MPLETE	******	*****
KIOOT				3.0			< CAP	ACITOR >			
R1665 R1666 R1671 R1680 R1681	1-215-894-11 1-215-894-11 1-216-081-00 1-249-417-11 1-249-429-11	METAL OXIDE METAL GLAZE CARBON	2.2K 2.2K 22K 1K 10K	5% 5% 5% 5%	2W F 2W F 1/10W 1/4W 1/4W	C803 C804 C806 C823 C827	1-164-695-11 1-136-161-00 1-124-907-11 1-124-902-00 1-136-187-11	FILM ELECT ELECT	0.0022MF 0.047MF 10MF 0.47MF 0.047MF	5% 5% 20% 20% 5%	50V 50V 50V 50V 63V
R1682 R1683 R1684 R1685 R1686	1-249-433-11 1-249-411-11 1-249-435-11 1-249-441-11 1-249-441-11	CARBON CARBON CARBON	22K 330 33K 100K 100K		1/4W 1/4W 1/4W 1/4W 1/4W	C847 C852 C853 C857 C861		CERAMIC CHIP CERAMIC CHIP ELECT ELECT	2.2MF	10% 20% 20% 5%	16V 25V 50V 50V 63V
R1687 R1801 R1802 R1804 R1806	1-249-441-11 1-249-409-11 1-249-409-11 1-247-891-00 1-216-103-91	CARBON CARBON CARBON	100K 220 220 330K 180K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/10W	C866 C870 C871 C872 C873	1-137-364-11 1-137-364-11 1-130-651-00 1-124-907-11 1-137-364-11	FILM FILM ELECT	0.001MF 0.001MF 0.001MF 10MF 0.001MF	5% 5% 2% 20% 5%	50V 50V 100V 50V 50V
R1807 R1808	1-247-891-00 1-215-461-00	METAL	330K 47K	1%	1/4W 1/4W		< CON	NECTOR >			
R1809 R1810	1-249-423-11 1-249-413-11	CARBON	3.3K 470	5%	1/4W 1/4W	CN2044	*1-573-299-11	CONNECTOR, B	OARD TO BO	ARD 10P	
R1811	1-216-083-00	METAL GLAZE	27K	5%	1/10W		< DIC	DE >			
R1812 R1813 R1815 R1816 R1817	1-216-091-00 1-249-417-11 1-216-069-00 1-216-065-00 1-216-059-00	CARBON METAL GLAZE METAL GLAZE	56K 1K 6.8K 4.7K 2.7K	5%	1/10W 1/4W 1/10W 1/10W 1/10W	D804 D808 D818 D821 D827	8-719-109-88 8-719-109-93 8-719-914-44	DIODE 1SS133 DIODE RD5.6E DIODE RD6.2E DIODE DAP202 DIODE MTZJ-T	SB2 K		
R1818 R1819 R1820	1-216-049-00 1-216-079-00 1-249-417-11	METAL GLAZE	1K 18K 1K	5% 5% 5%	1/10W 1/10W 1/4W	D830 D831	8-719-914-44	DIODE DAP2021 DIODE DAN2021	K		



D832   8-719-914-44   DIODE DAP202K   DIODE   DAP202K   DI851   8-719-911-31   DIODE RD12ESE2   DI856   8-719-901-33   DIODE ISS133   DI867   8-719-987-87   DIODE ERA85-009   DI868   8-719-987-87   DIODE ERA85-009   DI868   8-719-987-87   DIODE ERA85-009   DI868   8-719-9109-89   DIODE RD5.6ESE2   DI882   8-719-109-89   DIODE RD5.6ESE2   DI883   8-719-109-89   DIODE RD5.6ESE2   DI883   8-719-109-89   DIODE RD5.6ESE2   DI883   8-719-109-89   DIODE RD5.6ESE2   DI884   8-729-216-22   TRANSISTOR 2SA1162-G   CIC >	
CRO2   S-759-103-93   IC UPC393C   D1856   S-719-910-31   D10DE RD12ESB2   D1856   S-719-987-87   D10DE ERA85-009   D1868   S-719-987-87   D10DE ERA85-009   D1882   S-719-109-89   D10DE RD5.6ESB2	
TC802   8-759-103-93   IC UPC393C	
\( \text{TRANSISTOR} \rightarrow \) \[ \begin{array}{cccccccccccccccccccccccccccccccccccc	
R802 1-216-295-91 METAL GLAZE 0 5% 1/10W	
R802 1-216-295-91 METAL GLAZE 0 5% 1/10W	
R802 1-216-295-91 METAL GLAZE 0 5% 1/10W	
R805 1-216-679-11 METAL CHIP 15K 0.50% 1/10W R806 1-216-061-00 METAL GLAZE 3.3K 5% 1/10W R808 1-216-085-00 METAL GLAZE 33K 5% 1/10W R809 1-216-097-00 METAL GLAZE 100K 5% 1/10W  R813 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W R814 1-216-091-00 METAL GLAZE 56K 5% 1/10W R815 1-216-081-00 METAL GLAZE 22K 5% 1/10W R815 1-216-081-00 METAL GLAZE 22K 5% 1/10W R820 1-216-097-00 METAL GLAZE 100K 5% 1/10W R830 Q1851 8-729-173-38 TRANSISTOR 2SC2785-HFE R820 1-216-097-00 METAL GLAZE 100K 5% 1/10W R830 Q1853 8-729-119-78 TRANSISTOR 2SC2785-HFE R820 1-216-097-00 METAL GLAZE 100K 5% 1/10W R830 Q1854 8-729-173-38 TRANSISTOR 2SA733-K	
R806 1-216-061-00 METAL GLAZE 3.3K 5% 1/10W L1852 1-459-390-00 COIL (WITH CORE) R808 1-216-085-00 METAL GLAZE 33K 5% 1/10W R809 1-216-097-00 METAL GLAZE 100K 5% 1/10W R813 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W Q1851 8-729-119-78 TRANSISTOR 2SC2785-HFE R814 1-216-091-00 METAL GLAZE 56K 5% 1/10W Q1852 8-729-173-38 TRANSISTOR 2SA733-K R815 1-216-081-00 METAL GLAZE 22K 5% 1/10W Q1853 8-729-119-78 TRANSISTOR 2SC2785-HFE R820 1-216-097-00 METAL GLAZE 100K 5% 1/10W Q1854 8-729-173-38 TRANSISTOR 2SA733-K	
R809 1-216-097-00 METAL GLAZE 100K 5% 1/10W	
R814 1-216-091-00 METAL GLAZE 56K 5% 1/10W Q1852 8-729-173-38 TRANSISTOR 2SC2785-HFE R815 1-216-081-00 METAL GLAZE 22K 5% 1/10W Q1853 8-729-173-38 TRANSISTOR 2SC2785-HFE R820 1-216-097-00 METAL GLAZE 100K 5% 1/10W Q1854 8-729-173-38 TRANSISTOR 2SC2785-HFE Q1854 8-729-173-38 TRANSISTOR 2SC3785-HFE R820 1-216-097-00 METAL GLAZE 100K 5% 1/10W Q1854 8-729-173-38 TRANSISTOR 2SA733-K	
R815 1-216-081-00 METAL GLAZE 22K 5% 1/10W Q1853 8-729-119-78 TRANSISTOR 2SC2785-HFE R820 1-216-097-00 METAL GLAZE 100K 5% 1/10W Q1854 8-729-173-38 TRANSISTOR 2SA733-K	
The state of the s	
21000 0 1/20 110 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R828 1-216-121-00 METAL GLAZE 1M 5% 1/10W Q1856 8-729-017-05 TRANSISTOR 2SA1837 R829 1-249-429-11 CARBON 10K 5% 1/4W F Q1857 8-729-122-03 TRANSISTOR 2SA1220A-P	
R830 1-216-687-11 METAL CHIP 33K 0.50% 1/10W Q1858 8-729-920-92 TRANSISTOR 2SD2096-EF	
R832 1-216-682-11 METAL CHIP 20K 0.50% 1/10W Q1859 8-729-173-38 TRANSISTOR 2SA733-K R834 1-218-753-11 METAL CHIP 110K 0.50% 1/10W Q1860 8-729-119-78 TRANSISTOR 2SC2785-HFE	
R835 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W Q1861 8-729-017-06 TRANSISTOR 2SC4793 R837 1-216-695-11 METAL CHIP 68K 0.50% 1/10W	
R838 1-216-695-11 METAL CHIP 68K 0.50% 1/10W   R846 1-216-671-11 METAL CHIP 6.8K 0.50% 1/10W  R846 1-216-671-11 METAL CHIP 6.8K 0.50% 1/10W	
R847 1-216-699-11 METAL CHIP 100K 0.50% 1/10W JR1851 1-216-296-91 METAL GLAZE 0 5% 1/8W	
R867 1-216-113-00 METAL GLAZE 470K 5% 1/10W R1851 1-260-096-11 CARBON 560 5% 1/2W R884 1-216-693-11 METAL CHIP 56K 0.50% 1/10W R1852 1-249-437-11 CARBON 47K 5% 1/4W	
R1853 1-215-460-00 METAL 43K 1% 1/4W	
R1860 1-249-403-11 CARRON 68 5% 1/4W	
*A-1640-114-A D2 BOARD, COMPLETE ***********************************	
R1862 1-249-418-11 CARBON 1.2K 5% 1/4W CAPACITOR > R1863 1-215-473-00 METAL 150K 1% 1/4W	
R1873 1-216-474-11 METAL OXIDE 82 5% 3W	F
C1853 1-124-907-11 ELECT 10MF 20% 50V	
C1854 1-124-910-11 ELECT 47MF 20% 50V R1877 1-216-113-00 METAL GLAZE 470K 5% 1/10W C1855 1-106-367-00 MYLAR 0.01MF 10% 400V R1878 1-260-089-11 CARBON 150 5% 1/2W	
C1858 1-163-275-11 CERAMIC CHIP 0.001MF 5% 50V R1879 1-216-296-91 METAL GLAZE 0 5% 1/8W	
	F F
C1860 1-137-104-11 FILM 0.033MF 10% 250V	r
C1862 1-124-657-00 ELECT 10MF 20% 50V R1891 1-249-411-11 CARBON 330 5% 1/AW	
C1863 1-136-104-00 FILM 0.16MF 5% 200V R1893 1-215-911-11 METAL OXIDE 100 5% 3W 1	F
C1866 1-124-119-00 ELECT 330MF 20% 16V R1895 1-247-895-00 CARBON 470K 5% 1/4W	
C186/ 1-124-478-11 ELECT 100MF 20% 25V	
C1891 1-164-346-11 CERAMIC CHIP 1MF 16V R1898 1-249-411-11 CARBON 330 5% 1/4W C1892 1-164-346-11 CERAMIC CHIP 1MF 16V R1899 1-249-411-11 CARBON 330 5% 1/4W	
< CONNECTOR > < VARIABLE RESISTOR >	
CN1823 *1-573-299-11 CONNECTOR, BOARD TO BOARD 10P RV1851 1-241-765-11 RES, ADJ, CERMET 22K	
RV1853 1-241-761-11 RES, ADJ, CERMET 1K	





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REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		REMARK	REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		REMARK
T1851		NSFORMER > TRANSFORMER,	FERRITE (VI	POT)		C828 C830 C831 C832	1-136-557-11 1-136-105-00 1-123-932-00 1-124-910-11	FILM ELECT	0.0033MF 0.33MF 4.7MF 47MF	10% 5% 20% 20%	400V 200V 160V 50V
******	********	*******	*********	*****	*****	0002	1 111 710 11				
	*A-1642-102-A 4-200-001-01	*******				C833 C834 C835 C836 C837	1-136-569-11 1-137-114-11 1-124-480-11 1-102-228-00 1-129-702-00	FILM ELECT CERAMIC	1.2MF 0.68MF 470MF 470PF 0.001MF	5% 5% 20% 10% 10%	200V 200V 25V 500V 400V
	4-201-023-01 4-382-854-11 4-812-134-00 7-682-652-09	SPACER, INSUI SCREW (M3X10) RIVET NYLON, SCREW +PSW 32	), P, SW (+) 3.5	)		C838 C839 C840 C841 C842	1-110-364-11 1-123-950-00 1-124-480-11 1-102-228-00 1-136-208-11	MYLAR ELECT ELECT CERAMIC	0.1MF 47MF 470MF 470PF 0.068MF	10% 20% 20% 10%	200V 250V 25V 500V 250V
	< CAP	ACITOR >				C842	1-136-208-11	L T T W	U.UCOMP	10%	230V
C601 C602 C603 C605 C608	1-130-202-00 1-162-116-00 1-161-742-00 1-124-910-11 1-124-903-11	CERAMIC CERAMIC ELECT	0.022MF 680PF 0.0022MF 47MF 1MF	10% 10% 20% 20% 20%	400V 2KV 400V 50V	C843 C846 C851 C854 C863	1-124-907-11 1-123-024-21 1-137-364-11 1-162-115-00 1-106-383-00	ELECT FILM	10MF 33MF 0.001MF 330PF 0.047MF	20% 5% 10% 10%	50V 160V 50V 2KV 100V
C611 C612 C613 C614 C615	1-102-002-00 1-130-481-00 1-129-722-00 1-102-030-00 1-124-962-11	CERAMIC FILM FILM CERAMIC ELECT	680PF 0.0068MF 0.047MF 330PF 2200MF	10% 5% 10% 10% 20%	500V 50V 630V 500V 25V	C869 C875 C877 C878 C879	1-130-777-00 1-102-038-00 1-124-902-00 1-164-232-11 1-102-228-00	CERAMIC	0.1MF 0.001MF 0.47MF 0.01MF 470PF	5% 20% 10% 10%	63V 500V 50V 50V 500V
C616 C617 C618 C619 C620	1-162-115-00 1-162-116-00 1-162-115-00 1-102-030-00 1-164-299-11	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CHIP	330PF 680PF 330PF 330PF 0.22MF	10% 10% 10% 10% 10%	1KV 2KV 2KV 500V 25V	C1501 C1502 C1503 C1504 C1505	1-163-141-00 1-124-903-11 1-163-141-00 1-124-480-11 1-124-911-11	CERAMIC CHIP ELECT CERAMIC CHIP ELECT	1MF	5% 20% 5% 20% 20%	50V 50V 50V 25V 50V
C621 C622 C623 C624 C625	1-124-347-00 1-128-320-11 1-102-030-00 1-126-800-51 1-126-800-51	ELECT ELECT CERAMIC ELECT ELECT	100MF 2200MF 330PF 2200MF 2200MF	20% 20% 10% 20% 20%	160V 16V 500V 25V 25V	C1506 C1507 C1508 C1509 C1511	1-130-777-00 1-137-423-11 1-124-480-11 1-124-767-00 1-124-907-11	MYLAR ELECT ELECT	0.1MF 0.15MF 470MF 2.2MF 10MF	5% 10% 20% 20% 20%	63V 100V 25V 50V 50V
C627 C628 C629 C631 C632	1-136-553-11 1-124-910-11 1-124-907-11 1-163-075-00 1-137-372-11	ELECT ELECT CERAMIC CHIP	0.0015MF 47MF 10MF 0.047MF 0.022MF	10% 20% 20% 10% 5%	400V 50V 50V 25V 50V	C1512 C1514 C1515	1-164-004-11	CERAMIC CHIP	10MF 0.1MF 0.1MF	20% 10% 10%	25V 25V 25V
C633 C636 C640 C645 C646	1-163-077-00 1-130-777-00 1-124-916-11 1-128-571-11 1-124-798-11	ELECT ELECT	0.1MF 0.1MF 22MF 56MF 1MF	10% 5% 20% 20% 20%	25V 63V 50V 50V 160V	CN0004 CN0009 CN0504 CN0505 CN0506	1-508-786-00 1-568-878-51 1-564-511-11 *1-568-880-51 *1-568-880-51	PIN, CONNECT PLUG, CONNEC PIN, CONNECT	OR 3P TOR 8P OR 5P	CH) 2P	
C647 C801 C805 C808 C809	1-124-907-11 1-137-116-11 1-124-902-00 1-162-114-00 1-124-808-51	FILM ELECT CERAMIC	10MF 1MF 0.47MF 0.0047MF 10MF	20% 5% 20% 20%	50V 200V 50V 2KV 200V	CN0519 CN0521 CN0522 CN0523 CN0524	*1-568-878-51 1-508-765-00 *1-564-512-11 1-573-296-11 *1-568-878-51	PIN, CONNECT PLUG, CONNEC CONNECTOR, B	OR (5MM PITO TOR 9P OARD TO BOAL		
C810 C812 C813 C815 C816	1-163-001-11 1-162-318-11 1-110-364-11 1-162-117-00 1-102-244-00	MYLAR CERAMIC	220PF 0.001MF 0.1MF 100PF 220PF	10% 10% 10% 10% 10%	50V 500V 200V 500V 500V	CN0525 CN0526 CN0529 CN0544 CN5521	*1-695-294-11 *1-568-881-51 1-508-784-00 1-573-296-11 *1-568-878-51	PIN, CONNECT PIN, CONNECT CONNECTOR, B	OR 6P OR (5MM PIT OARD TO BOA	CH) 1P	
C819	1-126-103-11	ELECT	470MF	20%	16V	DY1	*1-580-798-11	CONNECTOR PI	N (DY) 6P		
C821 C822 C824 C825	1-120-103-11 1-137-347-11 1-162-116-00 1-137-366-11 1-162-116-00	FILM CERAMIC FILM	0.022MF 680PF 0.0022MF 680PF	3% 10% 5% 10%	2KV 2KV 50V 2KV	D601	< DIC	DE >			
C826	1-137-515-11		0.056MF	3%	400V	D602 D604	8-719-302-43 8-719-110-39	DIODE EL1Z DIODE RD15ES	В1		
0020	- 101-010-11	LIMI	J. UJ OMP	3.0		2001	5 , 17 110 37				



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTI	ON			REMARK
D605 D606	8-719-302-43	DIODE 1SS120A DIODE EL1Z		L812 L813 L817	1-412-531-31 1-412-519-11 1-423-374-11	INDUCTOR TRANSFORMER,		TY (H	LT)	
D607 D608 D609 D610	8-719-029-04 8-719-970-39	DIODE ELIZ DIODE RU-3AM DIODE D5L60 DIODE ESAC92M-02		L1501 L1502 L1503	1-412-525-21 1-412-525-21 1-412-525-21	INDUCTOR	10UH 10UH 10UH	,		
D611					< IC	LINK >				
D612 D613 D614 D616 D619	8-719-920-68 8-719-920-68 8-719-110-31	DIODE D10SC6M DIODE ESAB92-02 DIODE ESAB92-02 DIODE RD12ESB2 DIODE DAN202K		PS602 † PS603 †	1-532-686-21 1-532-686-21 1-532-686-21 1-532-686-21	LINK, IC 2.7 LINK, IC 2.7	A (ICP-F	75) 75)		
D620 D621	8-719-901-33 8-719-302-43	DIODE 1SS133			< TRA	ANSISTOR >				
D624 D801 D802	8-719-312-39 8-719-018-82 8-719-302-43	DIODE EL1Z DIODE R2K-V1 DIODE R2K-V1 DIODE RGP02-20EL-6394 DIODE EL1Z  DIODE MTZJ-33C DIODE RD7.5ESB2 DIODE RU-3AM DIODE GP08D DIODE GP08D  DIODE EL1Z DIODE EL1Z DIODE EL1Z DIODE MTZJ-30B DIODE MTZJ-30B DIODE MTZJ-30B DIODE MTZJ-30B DIODE DAN202K DIODE DAN202K DIODE DAN202K DIODE GP08D  DIODE MTZJ-3.6A  >  IC TDA4605-3 IC TL431CLP TC SFH617G-1		Q601 Q602 Q603	8-729-016-14 8-729-177-22 8-729-900-53 8-729-209-15	TRANSISTOR E TRANSISTOR 2 TRANSISTOR I TRANSISTOR 2	SB772-Q TC114EK	155		
D803 D809	8-719-982-27 8-719-110-03	DIODE MTZJ-33C		Q605	8-729-255-12	TRANSISTOR 2	SC2551-0			
D811 D812 D813	8-719-300-33 8-719-908-03 8-719-908-03	DIODE RU-3AM DIODE GP08D DIODE GP08D		Q606 Q611 Q612	8-729-216-22 8-729-119-78 8-729-903-29	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR D	SC2785-HI	FE		
D814 D815	8-719-028-29	DIODE RU30ALFS1		Q613 Q801	8-729-216-22 8-729-016-32	TRANSISTOR 2 TRANSISTOR 2	SA1162-G SC4927-01	1		
D816	8-719-979-85	DIODE EGP20G		Q802	8-729-140-97	TRANSISTOR 2	SB734-34			
D822 D824	8-719-982-20 8-719-028-72	DIODE RGP02-17EL-6433		Q807 Q813	8-729-019-71 8-729-119-80 8-729-140-96	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2688-LI	3-F50 K		
D825 D826	8-719-914-43 8-719-914-43	DIODE DAN202K DIODE DAN202K		Q1501	8-729-920-74	TRANSISTOR 2	SC2412K-(	QR		
D828 D1501 D1503	8-719-901-33 8-719-914-43 8-719-908-03	DIODE 1SS133 DIODE DAN202K DIODE GP08D		Q1502 Q1503 Q1504	8-729-901-01 8-729-216-22 8-729-901-01	TRANSISTOR D TRANSISTOR 2 TRANSISTOR D	SA1162-G			
D1504	8-719-982-03	DIODE MTZJ-3.6A			< RES	ISTOR >				
	< IC	>		R602	1-216-081-00				1/10W	
IC601 IC602 IC603 (*	8-759-073-29 8-759-908-15 8-749-923-44 8-759-103-93	IC TDA4605-3 IC TL431CLP IC SPH617G-1 IC UPC393C IC MC78L12ACPRP IC STV9379		R603 R604 R605 R606	1-215-901-00 1-260-200-11 1-216-295-91 1-216-035-00	CARBON METAL GLAZE	240K 5	%	2W 1/2W 1/10W 1/10W	1
IC803	8-759-081-31	IC MC78L12ACPRP		R607 R608	1-216-210-00 1-215-903-11		3.3K 5	% %	1/8W 2W	F
IC1501	8-759-192-71	IC STV9379		R609 R610	1-249-395-11 1-247-881-00		15 5 120K 5		1/4W 1/4W	
	< COI	L >		R611	1-215-887-00			%	- '	F
L602 L603 L604 L605 L606	1-410-397-21 1-410-396-41	FERRITE BEAD INDUCTOR 1. FERRITE BEAD INDUCTOR 0. FERRITE BEAD INDUCTOR 0. INDUCTOR 18UH	1UH 45UH	R612 R613 R614 R615 R617	1-260-131-11 1-216-259-00 1-216-488-11 1-216-488-11 1-216-033-00	METAL GLAZE METAL OXIDE METAL OXIDE	18K 5	% %	1/2W 1/8W 3W 3W 1/10W	F F
L610 L622 L623 L802 L803	1-412-533-21 1-412-533-21 1-408-947-00	INDUCTOR 47UH	1UH	R618 R620 R621 R622 R623	1-216-449-11 1-216-045-00 1-216-659-11 1-216-041-00 1-216-073-00	METAL GLAZE METAL CHIP METAL GLAZE	680 5 2.2K 0 470 5	% .50% %	2W 1/10W 1/10W 1/10W 1/10W	
L804 L807 L808 L809 L810	1-410-396-41 1-459-483-00 1-421-541-00 1-459-104-00 1-460-197-21	FERRITE BEAD INDUCTOR 0. COIL (WITH CORE) COIL, CHOKE 1000UH COIL, WITH CORE COIL, FERRITE (PMC)	45UH	R625 R626 R627 R629 R630	1-216-449-11 1-216-635-11 1-249-398-11 1-215-464-00 1-249-421-11	METAL CHIP CARBON METAL	220 0	.50% % %	2W 1/10W 1/4W 1/4W 1/4W	
L811	1-412-519-11			R631	1-216-398-11		5.6 5	%	3W	F





REF.NO.	PART NO.	DESCRIPTIO	N		F	REMARK	REF.NO.	PART NO.	DESCRIPTIO	N			REMARK
R633 R634 R635 R636	1-249-415-11 1-215-477-00 1-216-073-00 1-215-925-11	METAL METAL GLAZE	680 220K 10K 22K	5% 1% 5% 5%	1/4W 1/4W 1/10W 3W		R898 R1501 R1502 R1503	1-216-262-00 1-216-674-11 1-216-663-11 1-216-065-00	METAL CHIP		0.50%	1/8W 6 1/10W 6 1/10W 1/10W	
R637 R638 R639 R640 R642	1-216-113-00 1-216-073-00 1-216-089-91 1-217-192-21 1-216-374-00	METAL GLAZE METAL GLAZE WIREWOUND	470K 10K 47K 0.22 2.7	5% 5%	1/10W 1/10W 1/10W 2W 2W		R1504 R1505 R1506 R1508 R1509	1-216-081-00 1-216-081-00 1-216-053-00 1-216-683-11 1-216-085-00	METAL GLAZE METAL GLAZE	22K 22K 1.5K 22K 33K	5% 5% 5% 0.50% 5%	1/10W 1/10W 1/10W 6 1/10W 1/10W	
R643 R645 R646 R647 R648	1-249-417-11 1-215-464-00 1-216-097-00 1-216-059-00 1-249-424-11	METAL METAL GLAZE METAL GLAZE	1K 62K 100K 2.7K 3.9K	5%	1/4W 1/4W 1/10W 1/10W 1/4W		R1510 R1511 R1512 R1514 R1550	1-249-382-11 1-215-888-00 1-216-370-11 1-216-049-00 1-216-105-00	METAL OXIDE	1.2 220 1.2 1K 220K	5% 5% 5% 5%	1/4W 2W 2W 1/10W 1/10W	F F
R649 R650 R651 R652 R653	1-216-270-00 1-216-113-00 1-216-069-00 1-216-109-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	1M 470K 6.8K 330K 4.7K	5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W		R1551 R1552		METAL GLAZE		5%	1/10W 1/10W	
R654 R655 R656 R657 R801	1-215-904-11 1-216-065-00 1-216-033-00 1-247-811-31 1-216-069-00	METAL GLAZE METAL GLAZE CARBON	100K 4.7K 220 150 6.8K	5% 5% 5%	2W 1/10W 1/10W 1/4W 1/10W		RV601 T601 /r. T801 /r.	< TRA	RES, ADJ, CAI NSFORMER >  S.R.T (SMT89  TRANSFORMER)				
R804 R807 R811 R812 R818	1-217-778-11 1-216-037-00 1-216-033-00 1-216-061-00 1-216-685-11	METAL GLAZE METAL GLAZE METAL GLAZE	1K 330 220 3.3K 27K		1W 1/10W 1/10W 1/10W 1/10W	is the control of the	T803 T804 ******	1-437-090-00 1-424-584-11 ***********************************	TRANSFORMER,				*****
R819 R821 R822 R823 R826	1-247-755-11 1-215-918-00 1-215-918-00 1-216-065-00 1-216-166-00	METAL OXIDE METAL OXIDE METAL GLAZE	1.8K 1.5K 1.5K 4.7K 47	5% 5%	1/2W 3W 3W 1/10W 1/8W	F F	Ј81 Ј82		*******  KET >  TERMINAL BLOG JACK	CK, S 3	P		
R833 R836 R839 R840 R841	1-216-105-00 1-216-242-91 1-216-063-00 1-216-097-00 1-249-397-11	METAL GLAZE METAL GLAZE METAL GLAZE	220K 68K 3.9K 100K 22	5% 5%	1/10W 1/8W 1/10W 1/10W 1/4W		C083 C087	1-163-037-11 1-163-037-11	CERAMIC CHIP			10% 10%	25V 25V
R842 R848 R849 R851 R852	1-215-885-00		390 68 15 220 4.7	5% 5% 5% 5% 5%	2W 2W 2W 1/2W 1/4W		CN1008 CN1018	*1-564-513-11 *1-568-878-51 < COI	PIN, CONNECT		)		
R853 R854 R855 R858 R864	1-249-443-11 1-249-377-11 1-202-826-00 1-249-423-11 1-216-686-11	CARBON SOLID CARBON	0.47 0.47 4.7K 3.3K 30K	5% 20% 5%	1/4W 1/4W 1/2W 1/4W 6 1/10W	F	L081 L082		INDUCTOR SISTOR >	10UH 10UH	Ī	1 / 1 0 va	
R868 R871 R872 R873 R876	1-249-428-11 1-249-493-11 1-249-393-11 1-249-393-11 1-249-421-11	CARBON CARBON CARBON	8.2K 56K 10 10 2.2K	5% 5% 5%	1/4W 1/2W 1/4W 1/4W 1/4W		JR021 R081 R082 R083 R084 R085	1-216-295-91 1-216-073-00 1-216-065-00 1-216-057-00 1-216-202-00 1-216-202-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 10K 4.7K 2.2K 1.5K 1.5K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W 1/8W	1
R877 R889 R893 R894 R895	1-216-089-91 1-215-878-00 1-216-264-00 1-216-095-00	METAL OXIDE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22 47K 33K 560K 82K	5% 5% 5% 5% 5%	3W 1/10W 1W 1/8W 1/10W	F	S081 S082 S083	< SWI 1-571-532-21 1-571-532-21	SWITCH, TACT SWITCH, TACT SWITCH, TACT	IL IL			



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
	*1-648-475-11 *4-201-076-01 *4-374-987-01	******* HOLDER, LED GUIDE, LIGHT			C920 C921 C922 C923 C924	1-163-017-00 1-124-477-11	CERAMIC CHIP 1MF	4F 10% 4F 10% 20%	50V 50V 16V 16V 16V
		BRACKET (B), LIGHT GUID PACITOR >	E		C925 C926	1-124-477-11		20%	16V
C161		CERAMIC CHIP 0.01MF	10%	50V	C927 C928	1-104-346-11 1-124-477-11 1-124-477-11		20%	16V 16V
C162 C163 C164	1-162-638-11 1-163-077-00	CERAMIC CHIP 1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 10% 10%	16V 25V 25V	C929 C930	1-124-477-11 1-124-477-11	ELECT 47MF	20% 20% 20%	16V 16V 16V
C165		CERAMIC CHIP 0.01MF	10%	50V	C931 C932	1-164-346-11	CERAMIC CHIP 1MF CERAMIC CHIP 1MF		16V 16V
C166	1-163-109-00	CERAMIC CHIP 47PF	5%	50V	C933 C934	1-124-477-11 1-124-477-11		20% 20%	16V 16V
	< CON	NECTOR >			C935	1-124-477-11	ELECT 47MF	20%	16V
CN1132	*1-568-882-51	PIN, CONNECTOR 7P			C936 C937	1-164-346-11	CERAMIC CHIP 1MF	20%	16V 16V
	< DIC	DDE >			C938	1-124-477-11	ELECT 47MF	20%	16V
D092 D093	8-719-948-31	DIODE LD-201VR DIODE LD-201VR				< CO1	NNECTOR >		
D094	8-719-948-31	DIODE LD-201VR			CN1209 CN1210		CONNECTOR, BOARD TO PLUG, CONNECTOR 7P	BOARD 50P	
	< IC	>			CN1233 CN1240	*1-564-518-11	PLUG, CONNECTOR 3P PLUG, CONNECTOR 3P		
IC091	8-741-101-75	IC SBX1610-11				< DIC			
	< RES	SISTOR >		!	D901		DIODE MTZJ-9.1		
R091	1-216-190-00	METAL GLAZE 470 5%	1/8W		D902 D903	8-719-921-69	DIODE MTZJ-9.1 DIODE MTZJ-9.1 DIODE MTZJ-9.1		
******	*******	*******	*****	*****	D904	8-719-921-69	DIODE MTZJ-9.1		
	*A-1651-054-A	J BOARD, COMPLETE			D905		DIODE MTZJ-9.1		
					D906 D907	8-719-921-69	DIODE MTZJ-9.1 DIODE MTZJ-9.1		
	< CAP	ACITOR >			D908 D909		DIODE MTZJ-9.1 DIODE MTZJ-9.1		
C281	1-124-119-00		20%	16V	D910		DIODE MTZJ-9.1		
C291 C292	1-101-005-00 1-101-005-00			50V 50V	D911	8-719-921-69	DIODE MTZJ-9,1		
C293	1-101-003-00	CERAMIC 0.0047MF		50V	D912	8-719-921-69	DIODE MTZJ-9.1		
C294	1-101-003-00	CERAMIC 0.0047MF		50V	D913 D914	8-719-921-69	DIODE MTZJ-9.1 DIODE MTZJ-9.1		
C295		CERAMIC CHIP 0.001MF	10%	50V	D915	8-719-921-69	DIODE MTZJ-9.1		
C296 C901	1-163-009-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.0047MF	10% 10%	50V 50V	D916	0 710 001 60	DIODE WEGING		
C902		CERAMIC CHIP 0.0047MF	10%	50V 50V	D916 D917		DIODE MTZJ-9.1 DIODE MTZJ-9.1		
C904	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	D918	8-719-921-69	DIODE MTZJ-9.1		
C905	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	D919 D920		DIODE MTZJ-9.1 DIODE MTZJ-9.1		
C906	1-101-004-00	CERAMIC 0.01MF		50V	2,20	0 717 721 07	DIODE MINO-9.1		
C907 C908		CERAMIC CHIP 470PF CERAMIC CHIP 470PF	5% 5%	50V 50V	D921 D922		DIODE MTZJ-9.1		
C909	1-101-004-00	CERAMIC CHIF 4/0FF	20	50V	D923		DIODE MTZJ-9.1 DIODE MTZJ-9.1		
0010					D924	8-719-921-69	DIODE MTZJ-9.1		
C910 C911		CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0047MF	10% 10%	50V 50V	D925	8-719-921-69	DIODE MTZJ-9.1		
C912	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	D926	8-719-921-69	DIODE MTZJ-9.1		
C913 C914		CERAMIC CHIP 470PF	5%	50V	D927	8-719-921-69	DIODE MTZJ-9.1		
		CERAMIC CHIP 150PF	5%	50V	D928 D999	8-719-921-69 8-719-110-39	DIODE MTZJ-9.1 DIODE RD15ESB1		
C915 C916		CERAMIC CHIP 150PF	5%	50V					
C916	1-163-017-00	CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0047MF	10% 10%	50V 50V		< SOC	KET >		
C918	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	J291		TERMINAL BOARD, INPUT	r/OUTPUT	
C919	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	J901 J903	1-695-296-11	TERMINAL BLOCK, S SOCKET, PIN 21P		



REMARK

DESCRIPTION

PART NO.

REF.NO.	PART NO.	DESCRIPTIO	N		REMARK	REF.NO.
R973	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R974	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R975	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R976	1-216-055-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K	5%	1/10W	
R977	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
******	******	******	*****	****	******	
		MISCELLANEOUS				
		SPEAKER (12CM		(Earl)		
	1-452-616-11	SPEAKER (SQUA	WKEK)	(SCM)		
		COIL, DEMAGNE			(NASAS)	
2Ì.		COIL, DEMAGNE				
ad de justice Transcrius mandares et	74.170.170.170.170.170.170.170.170.170.170		account of the second	EERSTEESTTEETTEE		
Ŷ	8-451-393-12					
A	1-751-680-11	CORD, POWER (			(1075K) (33E/S3431K)	
À	1-590-460-11	CORD, POWER (		THE ASSESSMENT OF		
					(KV-S3431B)	
A	1-590-762-11	CORD, POWER (	WITH P	nuc)	(KV-83432II)	
		MAGNET, DISC;		manunsmun		
	1-452-094-00	MAGNET, ROTAT		ISK: 1	L5MM	
7901 AL	8-733-731-05	PICTURE TUBE	(M81KV	A10X)		
*****	******	******	*****	****	******	
		IES AND PACKIN				
	4-202-137-01	מגשם מחחת				
		MANUAL, INSTR	TICTION	(KV-9	334310)	
		MANUAL, INSTR				
		MANUAL, INSTR				
		MANUAL, INSTR				
		MANUAL, INSTR				
		MANUAL, INSTR			33431K)	
		CUSHION (UPPE				
	2-202-273-01	CUSHION (LOWE TRAY	in) (AS	51)		
		INDIVIDUAL CA	ARTON			
		DMOMB COMMAND	מי			
		EMOTE COMMANDE				

1-467-272-11 REMOTE COMMANDER RM-831 1-466-854-41 REMOTE COMMANDER RM-860



											<u> </u>
REF.NO.	PART NO.	DESCRIPTION	l		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N		REMARK
Ј903	1-695-550-11					R908	1-216-029-00	METAL GLAZE	150	5%	1/10W
J904	1-695-296-11	TERMINAL BLOCK	K, S			R909	1-216-113-00	METAL CLASE	470K	5%	1/10W
J905	1-695-293-11	SOCKET 21P				R910	1-216-055-00		1.8K		1/10W
J906	1-695-296-11	TERMINAL BLOCK	K. S			R911	1-216-022-00		75	5%	1/10W
J907	1-695-293-11	SOCKET 21P	, -			R913	1-216-063-00		3.9K		1/10W
						R914	1-216-063-00	METAL GLAZE	3.9K		1/10W
	< COI	.L >				D015	1 216 112 00	WEMAT GLAFE	4707	Ε0,	1 /1 01/
L281	1_402_711_11	דאוחווכייוסף שדחו	FRAND			R915 R916	1-216-113-00 1-216-113-00		470K 470K		1/10W 1/10W
L283	1-402-711-11	INDUCTOR, WID	EBAND			R917	1-216-022-00		75	5%	1/10W
L291	1-402-711-11	INDUCTOR, WID	EBAND			R919	1-216-063-00		3.9K		1/10W
L292	1-402-711-11	INDUCTOR, WID	EBAND			R920	1-216-063-00		3.9K	5%	1/10W
	K am	NOTOMOD .				R921	1-216-022-00	METAL CLATE	75	5%	1/10W
	< IRA	MOTOTOK >				R922	1-216-222-00		10K	5%	1/8W
Q281	8-729-920-74	TRANSISTOR 2S	C2412K-	-OR		R923	1-216-039-00		390	5%	1/10W
Q282	8-729-920-74	TRANSISTOR 2S	C2412K-	-QR		R924	1-216-039-00	METAL GLAZE	390	5%	1/10W
						R925	1-216-089-91	METAL GLAZE	47K	5%	1/10W
	< RES	SISTOR >				R926	1-216-039-00	METAL GLAZE	390	5%	1/10W
JR901	1-216-295-91	METAL GLAZE	0	5%	1/10W	R927	1-216-039-00		390	5%	1/10W
JR905	1-216-296-91		Ö	5%	1/8W	R928	1-216-089-91		47K	5%	1/10W
JR906	1-216-295-91	METAL GLAZE	0	5%	1/10W	R929	1-216-063-00		3.9K		1/10W
JR909	1-216-296-91		0	5%	1/8W	R930	1-216-113-00	METAL GLAZE	470K	5%	1/10W
JR910	1-216-296-91	METAL GLAZE	0	5%	1/8W	R931	1-216-212-00	MEMAT. CLASE	3.9K	5%	1/8W
JR911	1-216-296-91	METAL GLAZE	0	5%	1/8W	R932	1-216-113-00	METAL GLAZE	470K		1/10W
JR915	1-216-295-91	METAL GLAZE	Ö	5%	1/10W	R933	1-216-073-00		10K	5%	1/10W
JR917	1-216-296-91	METAL GLAZE	0	5%	1/8W	R934	1-216-063-00		3.9K		1/10W
JR918	1-216-295-91		0	5%	1/10W	R935	1-216-022-00	METAL GLAZE	75	5%	1/10W
JR919	1-216-296-91	METAL GLAZE	0	5%	1/8W	D026	1 216 222 22	MEMAT OLAGE	75	E0.	1/10W
JR920	1-216-295-91	METAL CLATE	0	5%	1/10W	R936 R937	1-216-022-00 1-216-113-00		75 470K	5% 5%	1/10W 1/10W
JR921	1-216-295-91		0	5%	1/10W	R938	1-216-039-00		390	5%	1/10W
JR923	1-216-296-91		Ŏ	5%	1/8W	R939	1-216-188-00		390	5%	1/8W
JR924	1-216-296-91	METAL GLAZE	0	5%	1/8W	R940	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
JR926	1-216-296-91	METAL GLAZE	0	5%	1/8W	D044	1 016 110 00	A	450	F0.	1 (107)
JR927	1 216 206 01	MEMAT OF SEE	٥	E0,	1/8W	R941 R942	1-216-113-00 1-216-188-00		470K 390	5% 5%	1/10W 1/8W
JR928	1-216-296-91 1-216-296-91		0	5% 5%	1/8W	R943	1-216-089-91		47K	5%	1/10W
JR935	1-216-296-91		Ö	5%	1/8W	R944	1-216-188-00		390	5%	1/8W
JR939	1-216-295-91		0	5%	1/10W	R945	1-216-089-91		47K	5%	1/10W
JR940	1-216-296-91	METAL GLAZE	0	5%	1/8W	5046	1 016 000 00			-0	1 (10%
JR942	1 216 206 01	METAL GLAZE	٥	5%	1/8W	R946 R947	1-216-022-00 1-216-029-00		75 150	5% 5%	1/10W 1/10W
JR944	1-216-295-91		0	5%	1/10W	R948	1-216-073-00		10K	5%	1/10W 1/10W
JR946	1-216-296-91		0	5%	1/8W	R949	1-216-113-00		470K		1/10W
JR947	1-216-295-91		0	5%	1/10W	R950	1-216-063-00		3.9K		1/10W
JR952	1-216-296-91	METAL GLAZE	0	5%	1/8W	-054	4 04 5 050 00			=0	4 /4 017
JR954	1-216-295-91	MEMAI CIATE	0	5%	1/10W	R951 R952	1-216-063-00 1-216-113-00		3.9K 470K		1/10W 1/10W
JR955	1-216-296-91		0	5%	1/10W 1/8W	R953	1-216-113-00		390	5%	1/8W
JR956	1-216-295-91		0	5%	1/10W	R954	1-216-039-00		390	5%	1/10W
JR957	1-216-295-91	METAL GLAZE	0	5%	1/10W	R955	1-216-039-00	METAL GLAZE	390	5%	1/10W
R283	1_216 072 00	WEMAT CLAFE	10K	5%	1/10W	R956	1-216-089-91	MEMAI CIATE	47K	5%	1/10W
R284	1-216-073-00 1-216-073-00		10K	5%	1/10W 1/10W	R957	1-216-039-00		390	5%	1/10W
R287	1-216-216-00		5.6K		1/8W	R958	1-216-089-91		47K	5%	1/10W
R288	1-216-216-00			5%	1/8W	R959	1-216-674-11	METAL CHIP	9.1K	0.50%	
R289	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	R960	1-216-674-11	METAL CHIP	9.1K	0.50%	1/10W
R291	1-249-413-11	CARBON	470	5%	1/4W	R961	1-216-674-11	METAL CHIP	9.1K	0.50%	1/10W
R292	1-249-413-11		470	5%	1/4W	R965	1-216-029-00		150	5%	1/10W
R901	1-216-039-00	METAL GLAZE	390	5%	1/10W	R966	1-216-029-00	METAL GLAZE	150	5%	1/10W
R902	1-216-039-00		390	5%	1/10W	R967	1-216-029-00		150	5%	1/10W
R903	1-216-113-00	METAL GLAZE	470K	5%	1/10W	R968	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R904	1-216-113-00	METAL GLAZE	470K	5%	1/10W	R969	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R905	1-216-188-00	METAL GLAZE	390	5%	1/8W	R970	1-216-055-00	METAL GLAZE	1.8K		1/10W
R906	1-216-039-00		390	5%	1/10W	R971	1-216-055-00		1.8K		1/10W
R907	1-216-029-00	METAL GLAZE	150	5%	1/10W	R972	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W